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January 6, 2012

Mr. Paul Atkociunas
On-Scene Coordinator
United States Environmental Protection Agency, Region V
77 West Jackson Boulevard
Chicago, IL 60604

Subject: **Emergency Response – Summit Auto Shedder Residue Fire Site**
Gary, Lake County, Indiana
Contract No.: EP-S5-06-04
Technical Direction Document No.: S05-0001-1111-023
Document Control No.: 1681-2A-ATIZ
Work Order No.: 20405.012.001.1681.00

Dear Mr. Atkociunas:

Under Technical Direction Document (TDD) No. S05-0001-1111-023, the United States Environmental Protection Agency (U.S. EPA) tasked the Weston Solutions, Inc. (WESTON®), Superfund Technical Assessment and Response Team (START) to provide oversight activities during an emergency response (ER) at the Summit Automobile (Auto) Shedder Residue Fire Site in Gary, Lake County, Indiana (the Site).

This letter report discusses the Site description; Site history; ER activities; air monitoring results; and sampling methods and analytical results for air, auto shredder residue, and surface water samples collected during the ER; and presents a summary of the ER activities. In addition, this letter report has four attachments. **Attachment A** provides the figures for this letter report. **Attachment B** provides a photographic log of Site conditions and ER activities. **Attachment C** provides summary tables for the sample analytical results. **Attachment D** provides the data validation reports (DVR) and laboratory analytical results for the air, auto shredder residue, and surface water samples collected during the ER.

SITE DESCRIPTION

The Site is located in an industrial area at 6901 Chicago Avenue in Gary, Lake County, Indiana (**Figure 1** in **Attachment A**). The Site coordinates are 41° 37’ 40.77” North latitude and 87° 25’ 19.16” West longitude. The Site is an auto recycling facility operated by Summit, Inc. (Summit). **Figure 2** in **Attachment A** shows the Site features map. The Site occupies approximately 32 acres, with auto shredder residue occupying approximately 2 acres (**Figure 3** in **Attachment A**). The Majestic Star Casino is located approximately 1 mile north of the Site, and the Gary Regional Airport is located approximately 0.3 mile southeast of the Site. The nearest residents are located approximately 1 mile northwest of the Site. Lake Michigan is approximately 1.1 miles north of the Site.

SITE HISTORY

At approximately 7:30 a.m. on November 19, 2011, two large piles of auto shredder residue caught fire at the Site. Auto shredder residue is a by-product of vehicle shredding and contains materials such as metal, glass, rubber, seat cushions, and plastic. During the ER, the auto shredder residue debris piles were approximately 45 feet high. Fire crews from the City of Gary, Lake Ridge, Merrillville, East Chicago, and New Chicago arrived at the Site to extinguish the fires. City of Gary personnel assumed command of the incident. Several crews worked simultaneously to attempt to extinguish the flames with water. The Lake County Hazardous Materials (HAZMAT) Team set up AreaRAE units to monitor for volatile organic compounds (VOCs), carbon monoxide (CO), lower explosive limit (LEL), and oxygen. At approximately 11:00 a.m., U.S. EPA received a request from the Indiana Department of Environmental Management (IDEM) to provide air monitoring support at the Site.

At approximately 12:15 p.m., U.S. EPA arrived at the Site and was provided Site access by a representative from Summit, the potentially responsible party (PRP). Before arrival, U.S. EPA mobilized WESTON START personnel to the Site to assist with air monitoring and sampling activities. At the Site, U.S. EPA met with fire and HAZMAT crews. U.S. EPA was informed that the fire could take several days to extinguish. Fire crews indicated that upon their arrival at the Site, the flames were up to 50 feet high and generated a significant amount of black smoke. However, upon arrival at the Site, U.S. EPA observed spotty fires, and the smoke plume was white. Fire crews stated that they had made significant progress fighting the fire. However, they anticipated further activities to extinguish the fire.

At this time, wind directed the smoke plume north toward the Majestic Star Casino and Lake Michigan. The wind did not change direction on November 19 but shifted south at approximately 3:00 a.m. on November 20, 2011, directing the smoke plume over the Gary Regional Airport.

During the ER, three fire hydrants were used to fight the fire, two located on the Site property and one located at the southeastern corner of the property and the right-of-way for Industrial Drive.

EMERGENCY RESPONSE ACTIVITIES

ER activities were conducted from November 19 through 21, 2011, at the Site and in the surrounding community. **Attachment B** provides a photographic log of Site conditions and ER activities. A chronology of ER activities is presented below.

November 19, 2011

- Local fire departments and the Lake County HAZMAT Team arrived at the Site and began fire-fighting activities.

- U.S. EPA, IDEM, and WESTON START representatives arrived at the Site.
- WESTON START began perimeter air monitoring for VOCs, CO, hydrogen sulfide (H_2S), LEL, oxygen, and particulates near the Site and the Majestic Star Casino using a MultiRAE and DataRAM instruments. The "Air Monitoring Results" section below discusses the air monitoring activities in more detail. Initial VOC air readings ranged from 0.0 to 2.1 part per million (ppm); CO raw data readings ranged from 0.0 to 3.1 ppm; H_2S air readings all were 0.0 ppm; LEL air readings all were 0 percent; oxygen raw data readings ranged from 20.6 to 20.9 percent; and particulate readings ranged from 0.0 to 1.5 milligrams per cubic meter (mg/m^3).
- WESTON START collected two air samples (Air-DebrisPile-111911 and Air-ChicagoAve-111911), two auto shredder residue samples (Fluff-1 and Fluff-2), and one surface water sample (Water-1). **Figure 3** in **Attachment A** shows the sampling locations. The "Sample Analytical Results" section below discusses the air sampling activities in more detail.
- The Lake County HAZMAT team demobilized from the Site at approximately 7:00 p.m.
- WESTON START began air monitoring within the Site boundaries for VOCs, LEL, ammonia (NH_3), hydrogen cyanide (HCN), chlorine gas (Cl_2), and oxygen using AreaRAEs. **Figure 4** in **Attachment A** shows the AreaRAE monitoring locations. The "Air Monitoring Results" section below discusses the air monitoring activities and results in detail.
- WESTON START began 24-hour air monitoring for VOCs, CO, H_2S, LEL, oxygen, and particulates around the Site and in the surrounding area using the Field Environmental Decision Support (FIELDS) Analytical and Sampling Tool (FAST) equipped with a MultiRAE, a DataRAM, and a global positioning system (GPS) unit. **Figure 5** in **Attachment A** shows the FAST monitoring coverage. The "Air Monitoring Results" section below discusses the air monitoring activities and results in detail.

November 20, 2011

- WESTON START continued 24-hour AreaRAE and FAST air monitoring for VOCs, CO, H_2S, LEL, NH_3, HCN, Cl_2, oxygen, and particulates near the Site and in the surrounding area (see **Figures 4** and **5** in **Attachment A**). The "Air Monitoring Results" section below discusses the air monitoring activities and results in detail.
- The surface fires at the Site were extinguished, but fire-fighting personnel remained at the Site to apply water to prevent flare-ups during the break down of auto shredder residue debris piles.
- U.S. EPA requested the Lake County HAZMAT Team to remobilize to site to continue conducting air monitoring.

- A meeting was held with personnel from the fire departments (Gary, Lake Ridge, and Merrillville), Lake County HAZMAT Team, the PRP, the PRP's consultant (Environmental Process Technologies [EPT]), IDEM, U.S. EPA, and WESTON START. The following objectives were discussed:
  - Ensure the health and safety of on-site personnel
  - Manage water from fire-fighting operations
  - Continue air monitoring
  - Break down piles of auto shredder residue
  - Extinguish the fire completely
- WESTON START collected one surface water sample (Water-2) (**Figure 3** in **Attachment A**). The "Sample Analytical Results" section below discusses the surface water sampling activities in more detail.
- A status meeting was conducted at 5:30 p.m. with personnel from the Gary Fire Department, Lake Ridge Fire Department, Griffith Fire Department, Lake County HAZMAT Team, the PRP, the PRP's consultant (EPT), IDEM, U.S. EPA, and WESTON START. The issues summarized below were discussed.
  - On-site fire-fighting equipment included two fire trucks with aerial guns, one tanker truck, and one fire engine.
  - On-site PRP equipment included one crane, one front-end loader, and two dump trucks.
  - Break down of the auto shredder residue debris piles would cease until first light the next day, when roads could be constructed for equipment to safely move around on site.
  - The PRP would conduct a fire watch during the overnight hours.
- The fire was extinguished in the morning and fire-fighting personnel demobilized from Site in the evening. However, hoses remained on the Site for quick hook-up in case of flare-ups during the night. Approximately 2,240,000 gallons of water was used to extinguish the fire.
- U.S. EPA and WESTON START ended 24-hour air monitoring operations and demobilized all air monitoring equipment from the Site.

November 21, 2011

- WESTON START hand-delivered air samples Air-DebrisPile-111911 and Air-ChicagoAve-111911 collected on November 19, 2011, to STAT Analysis Corporation (STAT) of Chicago, Illinois, for VOC analysis.

- WESTON START hand-delivered auto shredder residue samples Fluff-1 and Fluff-2 collected on November 19, 2011, to STAT of Chicago, Illinois, for analysis for VOCs, semivolatile organic compounds (SVOCs), polychlorinated biphenyls (PCB), total metals, Toxicity Characteristic Leaching Procedure (TCLP) metals, and asbestos.
- WESTON START hand-delivered surface water samples Water-1 and Water-2 collected on November 19 and 20, 2011, to STAT of Chicago, Illinois, for analysis for VOCs, SVOCs, PCBs, and total metals.
- A meeting was held with personnel from the Gary and the Lake Ridge fire departments, the Lake County HAZMAT Team, the PRP, the PRP's consultant (EPT), IDEM, U.S. EPA, and WESTON START to discuss the actions summarized below.
  - The PRP will establish an ER operation plan with the Gary Fire Department.
  - The PRP will continue to break down the auto shredder residue debris piles into smaller piles.
  - The PRP will collect samples of water runoff to obtain permission to dispose of the runoff into the City of Gary wastewater treatment plant.
- The City of Gary agreed to continue monitoring Site activities.
- Fire-fighting equipment was demobilized from the Site.
- U.S. EPA and WESTON START personnel demobilized from the Site.

AIR MONITORING RESULTS

AreaRAE and FAST air monitoring results are discussed below, followed by a discussion of action levels and their comparison to monitoring results.

AreaRAE Monitoring Results

On November 19 and 20, 2011, air monitoring was conducted within the Site boundaries using three strategically deployed AreaRAE instruments (AreaRAE 18, AreaRAE 19, and AreaRAE 20) that were monitored remotely (**Figure 4** in **Attachment A**). AreaRAE air monitoring results were at or near background levels throughout the monitoring period. The AreaRAE 18 unit had sensors for VOCs, LEL, and NH_3. The AreaRAE unit 19 had sensors for VOCs, LEL, HCN, and Cl_2. The AreaRAE 20 unit had sensors for VOCs, LEL, HCN, and Cl_2. Also, a DataRAM was set up next to AreaRAE 20 to monitor for particulates in the air. Because of prevailing winds from the south and southwest during the ER on the days of monitoring, the AreaRAE units were deployed north, northeast, and south of the incident location. The AreaRAE readings are summarized below.

- VOC raw data readings ranged from 0.0 to 2.1 ppm.
- LEL raw data readings ranged from 0.0 to 10.5 percent.

- NH_3 raw data readings ranged from 0.0 to 1.7 ppm.
- HCN raw data readings ranged from 0.0 to 2.0 ppm.
- Cl_2 raw data readings ranged from 0.0 to 0.1 ppm.
- Particulate readings ranged from 0.0018 to 1.5 mg/m^3.

The high LEL data readings occurred at AreaRAE 18 between 3:00 and 3:30 a.m. However, these readings occurred because exhaust fumes from two vehicles were fouling the sensor. AreaRAE 18 was moved to fresh air, and LEL readings dropped to 0 percent.

FAST Monitoring Results

On November 19 and 20, 2011, air monitoring was conducted to monitor the incident perimeter and the community (**Figure 5** in **Attachment A**). Monitoring was conducted using a MultiRAE, a DataRAM, and a GPS unit that recorded readings and positions in FAST. The MultiRAE unit monitored for VOCs, CO, H_2S, LEL, and oxygen, and the DataRAM unit monitored for particulates. The FAST readings are summarized below.

- VOC raw data readings ranged from 0.0 to 1.3 ppm.
- CO raw data readings ranged from 0.0 to 3.1 ppm.
- H_2S raw data readings ranged from 0.0 to 0.4 ppm.
- LEL raw data readings all were 0.0 percent.
- Oxygen raw data readings ranged from 20.6 to 20.9 percent.
- Particulate readings ranged from 0.0018 to 0.3574 mg/m^3.

Action Levels and Comparison to Monitoring Results

The table below summarizes actions levels established for the monitored constituents at the Site.

Constituent	Action Level
VOCs	5 ppm
Benzene	0.5 ppm
Nuisance dust	2.5 mg/m^3
NH_3	25 ppm
HCN	10 ppm
Cl_2	0.5 ppm
LEL	10%
Oxygen	<19.5 or >23.5 percent
Particulates (Metals) [1]	2.14 mg/m^3

Note:
1 A particulate monitor was used to monitor metals in ambient air from auto fluff.

The formula below shows how the real-time air monitoring action level of 2.14 mg/m^3 was determined for metal particulates in ambient air from auto fluff.

$$AL = \frac{10^6\ mg/kg}{\left[\sum\left(C_n/EL_n\right)\right](SF)}$$

Where

AL	=	Action level (mg/m^3)
10^6 mg/kg	=	Conversion factor
C_n	=	Maximum concentration of each contaminant in auto fluff (milligram per kilogram [mg/kg])
EL_n	=	Exposure limit of each contaminant (mg/m^3)
SF	=	Safety factor of 10 (unitless)

A safety factor of 2 is used if a site is well characterized. Safety factors of 3 through 10 are used depending on the quality or confidence in concentration data from a Site. A safety factor of 10 was used at the Site because of a low confidence level in the concentration of contaminants that makeup the auto-shredder debris piles.

The Occupational Safety and Health Administration (OSHA) permissible exposure limits were used as the exposure limits in the equation above. The table below shows the maximum concentration that were found in auto fluff in the past and OSHA permissible exposure limit (PEL) for each contaminant and the calculation of the real-time air monitoring action level for metal particulates in ambient air from auto fluff.

Metal	OSHA PEL (mg/m^3)	Maximum Concentration (mg/kg)	Maximum Concentration/ OSHA PEL	Airborne Dust Concentration to Achieve OSHA PEL (mg/m^3)
Lead	0.05	64	1,280	78.13
Cadmium	0.1	18	180	555.56
Arsenic	0.01	4	400	250.00
Cobalt	0.02	14	700	142.86
Copper	1	15,735	15,735	6.36
Chromium	0.05	101	2,020	49.50
Nickel	1.5	148	98.7	1,013.51
Zinc	0.13	3,415	26,269.2	3.81
Sum of Maximum Concentration/OSHA PEL			46,682.9	

AL = 1,000,000 mg/kg / 46,682.9 kg/m^3 × 10 = **2.14 mg/m^3**

All air monitoring results were below all action levels established for the Site.

SAMPLING METHODS AND ANALYTICAL RESULTS

This section discusses the sampling methods and analytical results for the air, auto shredder residue, and surface water samples collected during the ER.

Air Sampling Methods and Results

WESTON START collected two grab air samples (Air-DebrisPile-111911 and Air-ChicagoAve-111911) in 6-liter SUMMA canisters. The first SUMMA canister was deployed next to and east of the southern auto shredder residue debris pile from within the smoke plume. The second SUMMA canister was deployed just outside the northern Site boundary at the intersection of Chicago Avenue and Industrial Drive from within the smoke plume. **Figure 3** in **Attachment A** shows the sampling locations. Both samples were hand-delivered to STAT for VOC analysis. **Table 1** in **Attachment C** summarizes the air sample analytical results. **Attachment D** provides DVR and laboratory analytical results for the air samples.

The VOC results for Air-DebrisPile-111911 indicated that the following constituents were detected but that none of the results exceeded the OSHA PELs, OSHA 15-minute Short-Term Exposure Limits (STEL), or U.S. EPA Acute Exposure Guideline Levels (AEGL) except for 1,3-butadiene and benzene:

- 1,2,4-Trichlorobenzene
- 1,2,4-Trimethylbenzene
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,2-Dicloropropane
- 1,3,5-Trimethylbenzene
- 1,3-Butadiene
- 1,3-Dichlorobenzene
- 1,4-Dichlorobenzene
- 1,4-Dioxane
- 2-Butanone
- 2-Hexanone
- 4-Ethyltoluene
- 4-Methyl-2-pentanone
- Acetone
- Benzene
- Benzyl chloride
- Bromomethane
- Carbon disulfide
- Carbon tetrachloride
- Chlorobenzene
- Chloroethane
- Chloromethane
- cis-1,3-Dichloropropene
- Cyclohexane
- Dichlorodifluoromethane
- Ethylbenzene
- Heptane
- Hexane
- m,p-xlyene
- Methylene chloride
- o-Xylene
- Propene
- Styrene
- Tetrachloroethene
- Tetrahydrofuran
- Toluene
- Trichlorofluoromethane
- Vinyl chloride
- Total xylenes

The 1,3-butadiene and benzene results for Air-DebrisPile-111911 were 2.8 and 7.6 and ppm, respectively, which exceed the action limits. For 1,3-butadiene, the OSHA OSHA PEL (1 ppm)

was exceeded and for benzene, both the OSHA PEL (1 ppm) and STEL (5 ppm) were exceeded. It should be noted that the summa canister sample collected was a grab collected directly in the smoke plume and was not collected over a 15-minute or 8-hour period. Therefore, this sample represents a worse-case scenario.

The VOC results for Air-ChicagoAve-111911 indicated that the following constituents were detected but that none of the results exceeded the OSHA PELs, OSHA STELs, or U.S. EPA AEGLs:

- 1,2,4-Trimethylbenzene
- 1,2-Dichlorobenzene
- 1,2-Dichloroethane
- 1,3,5-Trimethylbenzene
- 1,3-Butadiene
- 1,4-Dioxane
- 2-Butanone
- 4-Ethyltoluene
- Acetone
- Benzene
- Bromomethane
- Chlorobenzene
- Chloroethane
- Chloromethane
- Cyclohexane
- Dichlorodifluoromethane
- Ethylbenzene
- Heptane
- Hexane
- m,p-Xylene
- o-Xylene
- Propene
- Styrene
- Tetrahydrofuran
- Toluene
- Trichlorofluoromethane
- Vinyl chloride
- Total xylenes

Auto Shredder Residue Sampling Methods and Results

WESTON START collected one auto shredder residue sample from each of the auto shredder residue debris piles that were on fire, Fluff-1 and Fluff-2. Fluff-1 was collected from the southern pile, and Fluff-2 was collected from the northern pile. **Figure 3** in **Attachment A** shows the sampling locations. Both samples were hand-delivered to STAT for analysis for VOCs, SVOCs, PCBs, total metals, and TCLP metals. **Table 2** in **Attachment C** summarizes the auto shredder residue sample analytical results. **Attachment D** provides the DVR and laboratory analytical results for the auto shredder residue samples. The samples were analyzed to determine the constituents in the auto shredder residue debris piles. Therefore, results were not compared to any action limits or other criteria.

The results for Fluff-1 indicated that the following constituents were detected:

- Acetone
- Benzene
- Ethylbenzene
- Styrene
- Toluene
- Acenaphthylene
- Benzo(b)fluoranthene
- Bis(2-ethylhexyl)phthalate
- Di-n-octyl phthalate
- Fluorene
- Naphthalene
- Phenanthrene
- Phenol
- Pyrene
- Aroclor 1242
- Aroclor 1254
- Arsenic
- Barium
- Cadmium
- Chromium
- Lead
- Mercury

- Selenium
- Silver
- TCLP barium
- TCLP cadmium
- TCLP lead
- TCLP selenium

The results for Fluff-2 indicated that the following constituents were detected:

- Benzo(a)anthracene
- Benzo(a)pyrene
- Benzo(b)fluoranthene
- Benzo(g,h,i)perylene
- Benzo(k)fluoranthene
- Bis(2-ethylhexyl)phthalate
- Butyl benzyl phthalate
- Phenanthrene
- Phenol
- Pyrene
- Aroclor 1242
- Aroclor 1254
- Arsenic
- Barium
- Cadmium
- Chromium
- Lead
- Mercury
- Selenium
- Silver
- TCLP barium
- TCLP cadmium
- TCLP lead

Surface Water Sampling Methods and Results

WESTON START collected two surface water samples, Water-1 and Water-2. Water-1 was collected from runoff water accumulating between the northern and southern auto shredder residue debris piles. Water-2 was collected from runoff water located directly northwest of the southern auto shredder residue debris pile. **Figure 3** in **Attachment A** shows the sampling locations. Both samples were hand-delivered to STAT for analysis for VOCs, SVOCs, PCBs, and total metals. **Table 3** in **Attachment C** summarizes the surface water sample analytical results. **Attachment D** provides the DVR and laboratory analytical results for the auto shredder residue debris pile samples. All samples were hand delivered to STAT for VOC, SVOC, Metals, and PCB analyses. The samples were analyzed to determine the constituents in surface water. Therefore, results were not compared to any action limits or other criteria.

The results for Water-1 indicated that the following constituents were detected:

- Acetone
- Benzene
- Bromomethane
- 2-Butanone
- Chloroethane
- Chloromethane
- Ethylbenzene
- 2-Hexanone
- 4-Methyl-2-pentanone
- Styrene
- Toluene
- Total xylenes
- Acenaphthylene
- Naphthalene
- Benzoic acid
- Nitrobenzene
- Phenol
- Arsenic
- Barium
- Cadmium
- Chromium
- Lead
- Mercury
- Selenium
- Silver

The results for Water-2 indicated that the following constituents were detected:

- Acetone
- Benzene
- 2-Butanone
- Chloromethane
- Benzoic acid
- Phenol
- Arsenic
- Barium
- Chromium
- Lead
- Mercury
- Selenium

SUMMARY

The U.S. EPA and WESTON START mobilized to the Site on November 19, 2011, to conduct air monitoring activities and collect two air, two auto shredder residue, and two surface water samples.

All air monitoring data were below the action levels established for the Site. For the air samples, VOCs were detected in both air samples collected from the Site, but none of the results exceeded the OSHA PELs, OSHA STELs, or U.S. EPA AEGLs except for 1,3-butadiene and benzene. In sample Air-DebrisPile-111911 collected from near the auto residue debris pile, 1,3-butadiene and benzene were detected at 2.8 and 7.6 ppm, respectively, which exceed the OSHA TWA PEL of 1 ppm for butadiene and benzene, and the OSHA 15-minute STEL of 5 ppm for benzene. For the auto shredder residue samples, Fluff-1 contained VOCs, SVOCs, PCBs, total metals, and TCLP metals, and Fluff-2 contained SVOCs, PCBs, total metals, and TCLP metals. For the surface water samples, both samples contained VOCs, SVOCs, and total metals.

On November 21, 2011, U.S. EPA and WESTON START demobilized from the Site. The City of Gary agreed to continue monitoring Site activities.

If you have any questions or comments regarding this report, please contact me at (847) 918-4084.

Very truly yours,
Weston Solutions, Inc.

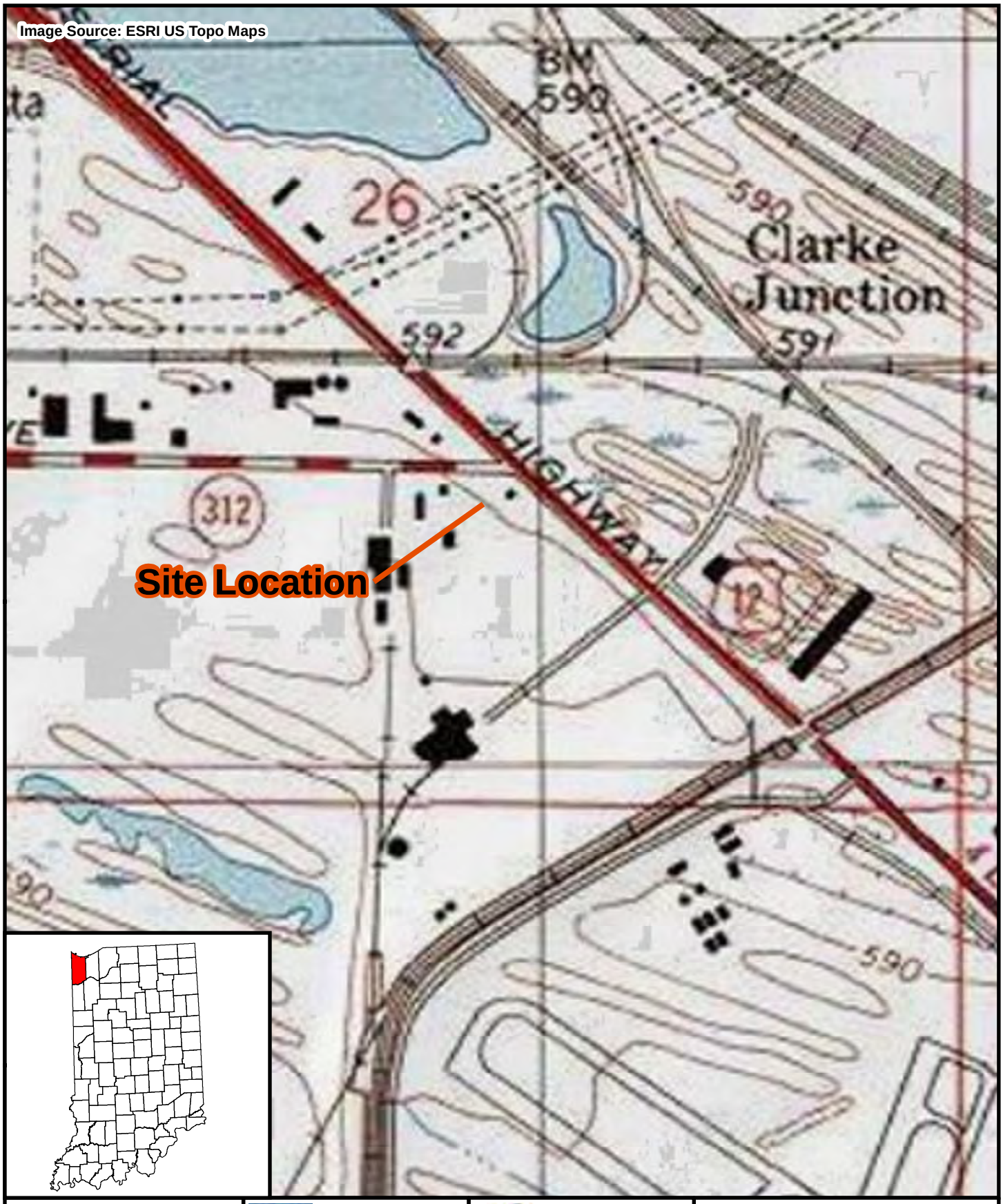
Ben Maradkel
WESTON START Project Manager

Attachments:
A - Figures
B - Photographic Log
C – Sample Analytical Results Summary Tables

D - DVRs and Laboratory Analytical Results for Air, Auto Shredder Residue, and Surface Water Samples

cc: WESTON START DCN File

ATTACHMENT A
FIGURES



FILE: D:\Summit_Auto_Shredder\GIS\mxds\F1_SiteLocation.mxd 1:50:53 PM 1/6/2012 mejacm

Legend

0 800 Feet

N

Prepared for:
U.S. EPA REGION V

Contract No.: EP-S5-06-04
TDD: S05-0001-1111-023
DCN: 1681-2A-ATIZ

Prepared By:
WESTON SOLUTIONS, INC

750 E. Bunker Court
Suite 500
Vernon Hills, Illinois 60061

Figure 1
Site Location Map
Summit Auto Shredder
Residue Fire
Gary, Lake County, Indiana

FILE: D:\Summit_Auto_ShredderGIS\mxds\F2_SiteFeatures.mxd 1:49:23 PM 1/6/2012 mejacm

Legend

Approximate Site Boundary

0 450 Feet

N

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Suite 500
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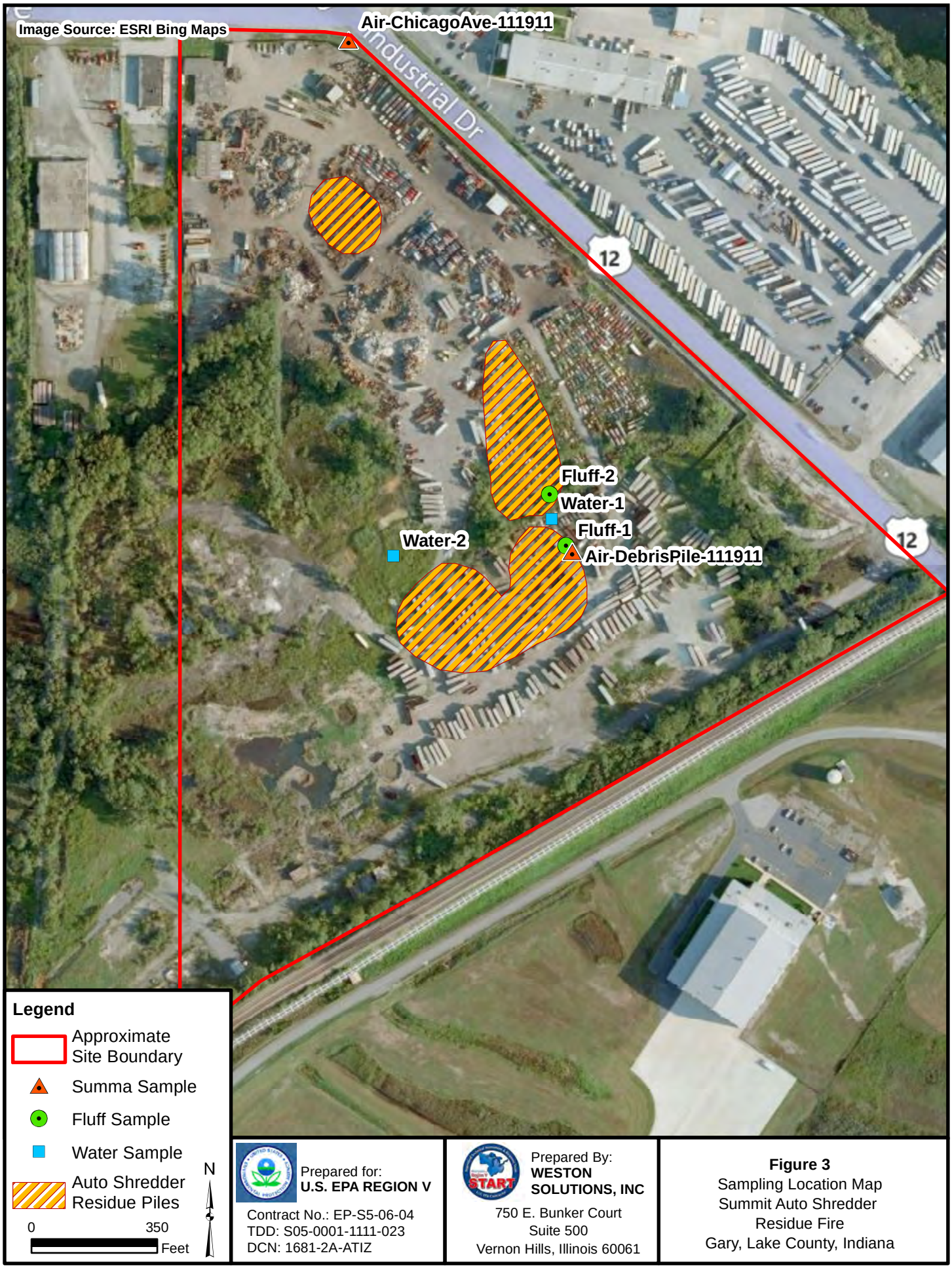
Figure 2
Site Features Map
Summit Auto Shredder
Residue Debris Fire
Gary, Lake County, Indiana



FILE: D:\Summit_Auto_Shredder\GIS\mxds\F3_Sample_location.mxd 1:50:13 PM 1/6/2012 mejacm

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U.S. EPA REGION V

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Prepared By:
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750 E. Bunker Court
Suite 500
Vernon Hills, Illinois 60061

Figure 3
Sampling Location Map
Summit Auto Shredder
Residue Fire
Gary, Lake County, Indiana

FILE: D:\Summit_Auto_Shredder\GIS\mxds\F4_AreaRAE.mxd 1:54:30 PM 1/6/2012 mejacm

Legend

- Approximate Site Boundary
- AreaRAE Location
- Auto Shredder Residue Piles

0 350 Feet

N

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Prepared By:
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Figure 4
AreaRAE Monitoring Map
Summit Auto Shredder
Residue Fire
Gary, Lake County, Indiana

FILE: D:\Summit_Auto_Shredder\GIS\mxds\F5_FAST.mxd 1:55:25 PM 1/6/2012 mejacm

Legend

- FAST Coverage
- Approximate Site Boundary

0 4,000 Feet

N

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U.S. EPA REGION V

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Figure 5
FAST Monitoring Map
Summit Auto Shredder
Residue Fire
Gary, Lake County, Indiana

ATTACHMENT B
PHOTOGRAPHIC LOG

Site: Summit Auto Shredder Residue Fire Site
Photograph No.: 1 **Date:** 11/19/11
Direction: West **Photographer:** Jeff Bryniariski
Subject: Fire on the southern auto shredder residue debris pile

Site: Summit Auto Shredder Residue Fire Site
Photograph No.: 2 **Date:** 11/19/11
Direction: Northwest **Photographer:** Jeff Bryniarski
Subject: Northern and southern auto shredder residue debris piles

Site: Summit Auto Shredder Residue Fire Site
Photograph No.: 3 **Date:** 11/19/11
Direction: South **Photographer:** Jeff Bryniarski
Subject: Air monitoring at Majestic Star Casino

Site: Summit Auto Shredder Residue Fire Site
Photograph No.: 4 **Date:** 11/20/11
Direction: Northwest **Photographer:** Mike Mejac
Subject: FAST instrument with MultiRAE, DataRAM, and GPS units

Site: Summit Auto Shredder Residue Fire Site
Photograph No.: 5 **Date:** 11/20/11
Direction: South **Photographer:** Ben Maradkel
Subject: AreaRAE 20 and DataRAM on south side of Site property

Site: Summit Auto Shredder Residue Fire Site
Photograph No.: 6 **Date:** 11/20/11
Direction: North **Photographer:** Ben Maradkel
Subject: Auto shredder residue debris pile being cooled with water

Site: Summit Auto Shredder Residue Fire Site
Photograph No.: 7 **Date:** 11/20/11
Direction: Northeast **Photographer:** Ben Maradkel
Subject: Runoff toward eastern portion of Site and near sampling locations for surface water sample Water-1 and auto shredder residue sample Fluff-2

Site: Summit Auto Shredder Residue Fire Site
Photograph No.: 8 **Date:** 11/20/11
Direction: South **Photographer:** Ben Maradkel
Subject: Runoff toward western portion of Site and near sampling location for surface water sample Water-2

ATTACHMENT C
SAMPLE ANALYTICAL RESULTS SUMMARY TABLES

Table 1
Air Sample Analytical Results
Summit Auto Shredder Residue Fire
Gary, Lake County, Indiana

VOCs	10-minute U.S. EPA AEGL 1	OSHA TWA PEL	15-minute OSHA STEL	Sample ID No.	Air-DebrisPile-111911	Air-ChicagoAve-111911
				Sampling Date and Time	11/19/2011, 5:20 p.m.	11/19/2011, 5:41 p.m.
	Regulatory Criteria			Unit	Result	
1,1,1-Trichloroethane	230,000	10,000	--	ppbv	< 0.36	< 0.32
1,1,2,2-Tetrachloroethane	--	5,000	--	ppbv	< 0.36	< 0.32
1,1,2-Trichloroethane	--	10,000	--	ppbv	< 0.36	< 0.32
1,1-Dichloroethane	--	100,000	--	ppbv	< 0.36	< 0.32
1,1-Dichloroethene	--	200,000	--	ppbv	< 0.36	< 0.32
1,2,4-Trichlorobenzene	--	--	--	ppbv	**3.4**	< 0.32
1,2,4-Trimethylbenzene	180,000	--	--	ppbv	**86**	**2.2**
1,2-Dibromoethane	52,000	20,000	--	ppbv	< 0.36	< 0.32
1,2-Dichlorobenzene	--	50,000	--	ppbv	**12**	**0.57**
1,2-Dichloroethane	--	50,000	--	ppbv	**59**	**0.52**
1,2-Dichloropropane	--	75,000	--	ppbv	**4.6**	< 0.32
1,3,5-Trimethylbenzene	180,000	--	--	ppbv	**180**	**2.8**
1,3-Butadiene	670,000	1,000	5,000	ppbv	**2,800**	**48**
1,3-Dichlorobenzene	--	--	--	ppbv	**6.5**	< 0.32
1,4-Dichlorobenzene	--	75,000	--	ppbv	**2.9**	< 0.32
1,4-Dioxane	17,000	100,000	--	ppbv	**450**	**3.7**
2-Butanone	200,000	200,000	--	ppbv	**390**	**4.2**
2-Hexanone	--	100,000	--	ppbv	**28**	< 1.6
4-Ethyltoluene	--	--	--	ppbv	**74**	**1.2**
4-Methyl-2-pentanone	--	100,000	--	ppbv	**190**	< 1.6
Acetone	200,000	--	750,000	ppbv	**3,900**	**39**
Benzene	130,000	1,000	5,000	ppbv	**7,600**	**150**
Benzyl chloride	--	1,000	--	ppbv	**16**	< 0.81
Bromodichloromethane	--	--	--	ppbv	< 0.36	< 0.32
Bromoform	--	500	--	ppbv	< 0.91	< 0.81
Bromomethane	940,000	20,000	--	ppbv	**34**	**0.84**
Carbon disulfide	17,000	20,000	--	ppbv	**21**	< 0.32
Carbon tetrachloride	58,000	10,000	--	ppbv	**0.49**	< 0.32
Chlorobenzene	10,000	75,000	--	ppbv	**150**	**3**
Chloroethane	--	1,000,000	--	ppbv	**240**	**2.8**
Chloroform	120,000 [1]	50,000	--	ppbv	< 0.36	< 0.32
Chloromethane	1,100,000 [1]	100,000	--	ppbv	**1,400**	**26**
cis-1,2-Dichloroethene	140,000	200,000	--	ppbv	< 0.36	< 0.32
cis-1,3-Dichloropropene	--	--	--	ppbv	**1.8**	< 0.32
Cyclohexane	--	300,000	--	ppbv	**38**	**0.57**
Dibromochloromethane	--	--	--	ppbv	< 0.36	< 0.32
Dichlorodifluoromethane	--	1,000,000	--	ppbv	**0.38**	**0.39**
Ethyl acetate	--	400,000	--	ppbv	< 0.36	< 0.32
Ethylbenzene	33,000	100,000	--	ppbv	**3,300**	**65**
Freon-113	--	1,000,000	--	ppbv	< 0.36	< 0.32
Freon-114	--	1,000,000	--	ppbv	< 1.8	< 1.6
Heptane	--	500,000	--	ppbv	**500**	**4.7**
Hexachlorobutadiene	--	--	--	ppbv	< 0.36	< 0.32
Hexane	4,800,000 [1]	500,000	--	ppbv	**420**	**4.8**
Isopropyl alcohol	--	400,000	--	ppbv	< 1.8	< 1.6
m,p-Xylene	--	100,000	--	ppbv	**990**	**12**

Table 1
Air Sample Analytical Results
Summit Auto Shredder Residue Fire
Gary, Lake County, Indiana

VOCs	10-minute U.S. EPA AEGL 1	OSHA TWA PEL	15-minute OSHA STEL	Sample ID No.	Air-DebrisPile-111911	Air-ChicagoAve-111911
				Sampling Date and Time	11/19/2011, 5:20 p.m.	11/19/2011, 5:41 p.m.
	Regulatory Criteria			Unit	Result	
Methyl tert-butyl ether	50,000	--	--	ppbv	< 0.36	< 0.32
Methylene chloride	290,000	25,000	125,000	ppbv	**8.3**	< 3.2
o-Xylene	--	100,000	--	ppbv	**410**	**4.4**
Propene	--	--	--	ppbv	**13,000**	**300**
Styrene	20,000	100,000	--	ppbv	**13,000**	**230**
Tetrachloroethene	35,000	100,000	--	ppbv	**2**	< 0.32
Tetrahydrofuran	--	200,000	--	ppbv	**1,500**	**13**
Toluene	200,000	200,000	--	ppbv	**4,700**	**97**
trans-1,2-Dichloroethene	280,000	--	--	ppbv	< 0.36	< 0.32
trans-1,3-Dichloropropene	--	--	--	ppbv	< 0.36	< 0.32
Trichloroethene	260,000	100,000	--	ppbv	< 0.36	< 0.32
Trichlorofluoromethane	--	1,000,000	--	ppbv	**14**	**1.1**
Vinyl acetate	6,700	--	--	ppbv	< 3.6	< 3.2
Vinyl chloride	450,000	1,000	--	ppbv	**37**	**1.1**
Xylenes, Total	130,000	100,000	--	ppbv	**1,400**	**16**

Notes:
Shaded values exceed regulatory criteria
Bold results indicated detected concentrations.
-- = Not listed
< = Not detected at the reporting limit
AEGL = Acute Exposure Guideline Level
ID = Identification
OSHA = Occupational Safety and Health Administration
PEL = Permissible exposure limit
ppbv = Part per billion by volume
STEL = Short-Term Exposure Limit
TWA = Time-weighted average
U.S. EPA = United States Environmental Protection Agency
VOC = Volatile organic compound
1 AEGL 2 value used; AEGL 1 value is not recommended because of insufficient data

Table 2
Auto Shredder Residue Sample Analytical Results
Summit Auto Shredder Residue Fire
Gary, Lake County, Indiana

Sample ID No.	Fluff-1	Fluff-2
Sampling Date and Time	11/19/2011, 5:05 p.m.	11/19/2011, 5:25 p.m.
VOCs (mg/kg)		
Acetone	**0.77 J**	< 0.29
Benzene	**0.2**	< 0.02
Bromodichloromethane	< 0.026	< 0.02
Bromoform	< 0.026	< 0.02
Bromomethane	< 0.052 UJ	< 0.039 UJ
2-Butanone	< 0.39	< 0.29
Carbon disulfide	< 0.26	< 0.2
Carbon tetrachloride	< 0.026	< 0.02
Chlorobenzene	< 0.026	< 0.02
Chloroethane	< 0.052	< 0.039
Chloroform	< 0.026	< 0.02
Chloromethane	< 0.052	< 0.039
Dibromochloromethane	< 0.026	< 0.02
1,1-Dichloroethane	< 0.026	< 0.02
1,2-Dichloroethane	< 0.026	< 0.02
1,1-Dichloroethene	< 0.026	< 0.02
cis-1,2-Dichloroethene	< 0.026	< 0.02
trans-1,2-Dichloroethene	< 0.026	< 0.02
1,2-Dichloropropane	< 0.026	< 0.02
cis-1,3-Dichloropropene	< 0.01	< 0.0078
trans-1,3-Dichloropropene	< 0.01	< 0.0078
Ethylbenzene	**0.18**	< 0.02
2-Hexanone	< 0.1	< 0.078
4-Methyl-2-pentanone	< 0.1	< 0.078
Methylene chloride	< 0.052	< 0.039
Methyl tert-butyl ether	< 0.026	< 0.02
Styrene	**1.3**	< 0.02
1,1,2,2-Tetrachloroethane	< 0.026	< 0.02
Tetrachloroethene	< 0.026	< 0.02
Toluene	**0.22**	< 0.02
1,1,1-Trichloroethane	< 0.026	< 0.02
1,1,2-Trichloroethane	< 0.026	< 0.02
Trichloroethene	< 0.026	< 0.02
Vinyl chloride	< 0.026	< 0.02
Xylenes, total	< 0.078	< 0.059
SVOCs (mg/kg)		
Acenaphthene	< 0.49	< 0.37
Acenaphthylene	**0.58**	< 0.37
Aniline	< 4.9	< 3.7
Anthracene	< 0.49	< 0.37
Benzo(a)anthracene	< 0.49	**0.46**
Benzidine	< 4.9	< 3.7
Benzo(a)pyrene	< 0.49	**0.44**
Benzo(b)fluoranthene	**0.68**	**0.74**
Benzo(g,h,i)perylene	< 0.49	**0.42**
Benzo(k)fluoranthene	< 0.49	**0.49**
Benzoic acid	< 12	< 9.3
Benzyl alcohol	< 2.5	< 1.9
Bis(2-chloroethoxy)methane	< 2.5	< 1.9
Bis(2-chloroethyl)ether	< 2.5	< 1.9
Bis(2-ethylhexyl)phthalate	**86**	**3,000**
4-Bromophenyl phenyl ether	< 2.5	< 1.9
Butyl benzyl phthalate	< 2.5	**3.1**

Table 2
Auto Shredder Residue Sample Analytical Results
Summit Auto Shredder Residue Fire
Gary, Lake County, Indiana

Sample ID No.	Fluff-1	Fluff-2
Sampling Date and Time	11/19/2011, 5:05 p.m.	11/19/2011, 5:25 p.m.
Carbazole	< 2.5	< 1.9
4-Chloroaniline	< 2.5	< 1.9
4-Chloro-3-methylphenol	< 4.9	< 3.7
2-Chloronaphthalene	< 2.5	< 1.9
2-Chlorophenol	< 2.5	< 1.9
4-Chlorophenyl phenyl ether	< 2.5	< 1.9
Chrysene	< 0.97	< 0.74
Dibenzo(a,h)anthracene	< 0.49	< 0.37
Dibenzofuran	< 2.5	< 1.9
1,2-Dichlorobenzene	< 2.5	< 1.9
1,3-Dichlorobenzene	< 2.5	< 1.9
1,4-Dichlorobenzene	< 2.5	< 1.9
3,3´-Dichlorobenzidine	< 2.5	< 1.9
2,4-Dichlorophenol	< 2.5	< 1.9
Diethyl phthalate	< 2.5	< 1.9
2,4-Dimethylphenol	< 2.5	< 1.9
Dimethyl phthalate	< 2.5	< 1.9
4,6-Dinitro-2-methylphenol	< 4.9	< 3.7
2,4-Dinitrophenol	< 12	< 9.3
2,4-Dinitrotoluene	< 0.49	< 0.37
2,6-Dinitrotoluene	< 0.49	< 0.37
Di-n-butyl phthalate	< 2.5	< 1.9
Di-n-octyl phthalate	**5.5**	< 1.9
Fluoranthene	< 2.5	< 1.9
Fluorene	**0.56**	< 0.37
Hexachlorobenzene	< 2.5	< 1.9
Hexachlorobutadiene	< 2.5	< 1.9
Hexachlorocyclopentadiene	< 2.5	< 1.9
Hexachloroethane	< 2.5	< 1.9
Indeno(1,2,3-cd)pyrene	< 0.49	< 0.37
Isophorone	< 2.5	< 1.9
2-Methylnaphthalene	< 2.5	< 1.9
2-Methylphenol	< 2.5	< 1.9
4-Methylphenol	< 2.5	< 1.9
Naphthalene	**2.4**	< 0.37
2-Nitroaniline	< 2.5	< 1.9
3-Nitroaniline	< 2.5	< 1.9
4-Nitroaniline	< 2.5	< 1.9
2-Nitrophenol	< 2.5	< 1.9
4-Nitrophenol	< 4.9	< 3.7
Nitrobenzene	< 0.49	< 0.37
N-nitrosodi-n-propylamine	< 0.49	< 0.37
N-nitrosodimethylamine	< 2.5	< 1.9
N-nitrosodiphenylamine	< 0.49	< 0.37
2, 2'-Oxybis(1-chloropropane)	< 2.5	< 1.9
Pentachlorophenol	< 0.49	< 0.37
Phenanthrene	**1.3**	**0.55**
Phenol	**17**	**9**
Pyrene	**0.73**	**1.2**
Pyridine	< 9.9	< 7.5
1,2,4-Trichlorobenzene	< 2.5	< 1.9
2,4,5-Trichlorophenol	< 2.5	< 1.9
2,4,6-Trichlorophenol	< 2.5	< 1.9
PCBs (mg/kg)		

Table 2
Auto Shredder Residue Sample Analytical Results
Summit Auto Shredder Residue Fire
Gary, Lake County, Indiana

Sample ID No.	Fluff-1	Fluff-2
Sampling Date and Time	11/19/2011, 5:05 p.m.	11/19/2011, 5:25 p.m.
Aroclor 1016	< 0.13	< 0.099
Aroclor 1221	< 0.13	< 0.099
Aroclor 1232	< 0.13	< 0.099
Aroclor 1242	**1.4**	**2.5**
Aroclor 1248	< 0.13	< 0.099
Aroclor 1254	**1.6**	**1.9**
Aroclor 1260	< 0.13	< 0.099
Total Metals (mg/kg)		
Arsenic	**15**	**13**
Barium	**3,100**	**1,100**
Cadmium	**17**	**22**
Chromium	**140**	**290**
Lead	**1,300**	**1,700**
Mercury	**0.77**	**2.7**
Selenium	**13**	**11**
Silver	**4.3**	**5.5**
TCLP Metals (mg/L)		
Arsenic	< 0.01	< 0.01
Barium	**1.3**	**0.67**
Cadmium	**0.051**	**0.053**
Chromium	< 0.01	0.012
Lead	**0.17**	**0.28**
Mercury	< 0.0002	< 0.0002
Selenium	**0.022**	< 0.01
Silver	< 0.01	< 0.01

Notes:
Bold results indicated detected concentrations.
< = Not detected at the reporting limit
ID = Identification
mg/kg = Milligram per kilogram
mg/L = Milligram per liter
PCB = Polychlorinated biphenyl
SVOC = Semivolatile organic compound
TCLP = Toxicity Characteristic Leaching Procedure
VOC = Volatile organic compound
J – estimated value
UJ – analyte was not detected; the reporting limit value is estimated

Table 3
Surface Water Sample Analytical Results
Summit Auto Shredder Residue Fire
Gary, Lake County, Indiana

Sample ID No.	Water-1	Water-2
Sampling Date and Time	11/19/2011, 5:15 p.m.	11/20/2011, 2:30 p.m.
VOCs (mg/L)		
Acetone	**6.8**	**4.9**
Benzene	**0.62**	**0.031**
Bromodichloromethane	< 0.005	< 0.005
Bromoform	< 0.005	< 0.005
Bromomethane	**0.025**	< 0.01
2-Butanone	**0.83**	**0.58**
Carbon disulfide	< 0.01	< 0.01
Carbon tetrachloride	< 0.005	< 0.005
Chlorobenzene	< 0.005	< 0.005
Chloroethane	**0.028**	< 0.01
Chloroform	< 0.005	< 0.005
Chloromethane	**0.29**	**0.064**
Dibromochloromethane	< 0.005	< 0.005
1,1-Dichloroethane	< 0.005	< 0.005
1,2-Dichloroethane	< 0.005	< 0.005
1,1-Dichloroethene	< 0.005	< 0.005
cis-1,2-Dichloroethene	< 0.005	< 0.005
trans-1,2-Dichloroethene	< 0.005	< 0.005
1,2-Dichloropropane	< 0.005	< 0.005
cis-1,3-Dichloropropene	< 0.001	< 0.001
trans-1,3-Dichloropropene	< 0.001	< 0.001
Ethylbenzene	**0.18**	< 0.005
2-Hexanone	**0.035**	< 0.02
4-Methyl-2-pentanone	**0.055**	0.038
Methylene chloride	< 0.005	< 0.005
Methyl tert-butyl ether	< 0.005	< 0.005
Styrene	**1.3**	< 0.005
1,1,2,2-Tetrachloroethane	< 0.005	< 0.005
Tetrachloroethene	< 0.005	< 0.005
Toluene	**0.37**	< 0.005
1,1,1-Trichloroethane	< 0.005	< 0.005
1,1,2-Trichloroethane	< 0.005	< 0.005
Trichloroethene	< 0.005	< 0.005
Vinyl chloride	< 0.002	< 0.002
Xylenes, total	**0.049**	< 0.015
SVOCs (mg/L)		
Acenaphthene	< 0.01 UJ	< 0.01 UJ
Acenaphthylene	**0.012 J**	< 0.01 UJ
Anthracene	< 0.01 UJ	< 0.01 UJ
Benzo(a)anthracene	< 0.001 UJ	< 0.001 UJ
Benzo(a)pyrene	< 0.001 UJ	< 0.001 UJ
Benzo(b)fluoranthene	< 0.001 UJ	< 0.001 UJ
Benzo(g,h,i)perylene	< 0.01 UJ	< 0.01 UJ
Benzo(k)fluoranthene	< 0.001 UJ	< 0.001 UJ
Chrysene	< 0.001 UJ	< 0.001 UJ
Dibenzo(a,h)anthracene	< 0.001 UJ	< 0.001 UJ
Fluoranthene	< 0.01 UJ	< 0.01 UJ
Fluorene	< 0.01 UJ	< 0.01 UJ

Table 3
Surface Water Sample Analytical Results
Summit Auto Shredder Residue Fire
Gary, Lake County, Indiana

Sample ID No.	Water-1	Water-2
Sampling Date and Time	11/19/2011, 5:15 p.m.	11/20/2011, 2:30 p.m.
Indeno(1,2,3-cd)pyrene	< 0.001 UJ	< 0.001 UJ
Naphthalene	**0.029 J**	< 0.01 UJ
Phenanthrene	< 0.01 UJ	< 0.01 UJ
Pyrene	< 0.01 UJ	< 0.01 UJ
Aniline	< 0.25	< 0.25
Benzidine	< 0.25	< 0.25
Benzoic acid	**3.1**	**6.1**
Benzyl alcohol	< 0.25	< 0.25
Bis(2-chloroethoxy)methane	< 0.25	< 0.25
Bis(2-chloroethyl)ether	< 0.25	< 0.25
Bis(2-ethylhexyl)phthalate	< 0.25	< 0.25
4-Bromophenyl phenyl ether	< 0.25	< 0.25
Butyl benzyl phthalate	< 0.25	< 0.25
Carbazole	< 0.001 UJ	< 0.001 UJ
4-Chloroaniline	< 0.25	< 0.25
2,4-Dinitrotoluene	< 0.001 UJ	< 0.001 UJ
4-Chloro-3-methylphenol	< 0.25 UJ	< 0.25 UJ
2,6-Dinitrotoluene	< 0.001 UJ	< 0.001 UJ
2-Chloronaphthalene	< 0.25	< 0.25
2-Chlorophenol	< 0.25	< 0.25
N-nitrosodi-n-propylamine	< 0.001 UJ	< 0.001 UJ
4-Chlorophenyl phenyl ether	< 0.25	< 0.25
Nitrobenzene	**0.021 J**	< 0.01 UJ
Pentachlorophenol	< 0.005 UJ	< 0.005 UJ
Dibenzofuran	< 0.25	< 0.25
1,2-Dichlorobenzene	< 0.25	< 0.25
1,3-Dichlorobenzene	< 0.25	< 0.25
1,4-Dichlorobenzene	< 0.25 UJ	< 0.25 UJ
3,3´-Dichlorobenzidine	< 0.5	< 0.5
2,4-Dichlorophenol	< 0.25	< 0.25
Diethyl phthalate	< 0.25	< 0.25
2,4-Dimethylphenol	< 0.25	< 0.25
Dimethyl phthalate	< 0.25	< 0.25
4,6-Dinitro-2-methylphenol	< 1.2	< 1.2
2,4-Dinitrophenol	< 1.2	< 1.2
Di-n-butyl phthalate	< 0.25	< 0.25
Di-n-octyl phthalate	< 0.25	< 0.25
Hexachlorobenzene	< 0.25	< 0.25
Hexachlorobutadiene	< 0.25	< 0.25
Hexachlorocyclopentadiene	< 0.25	< 0.25
Hexachloroethane	< 0.25	< 0.25
Isophorone	< 0.25	< 0.25
2-Methylnaphthalene	< 0.25	< 0.25
2-Methylphenol	< 0.25	< 0.25
4-Methylphenol	< 0.25	< 0.25
2-Nitroaniline	< 1.2	< 1.2
3-Nitroaniline	< 1.2	< 1.2
4-Nitroaniline	< 1.2	< 1.2
2-Nitrophenol	< 0.25	< 0.25

Table 3
Surface Water Sample Analytical Results
Summit Auto Shredder Residue Fire
Gary, Lake County, Indiana

Sample ID No.	Water-1	Water-2
Sampling Date and Time	11/19/2011, 5:15 p.m.	11/20/2011, 2:30 p.m.
4-Nitrophenol	< 1.2 UJ	< 1.2 UJ
N-nitrosodimethylamine	< 0.25	< 0.25
N-nitrosodiphenylamine	< 0.25	< 0.25
2, 2'-Oxybis(1-chloropropane)	< 0.25	< 0.25
Phenol	**3.1 J**	**1.2 J**
Pyridine	< 0.25	< 0.25
1,2,4-Trichlorobenzene	< 0.25	< 0.25
2,4,5-Trichlorophenol	< 0.5	< 0.5
2,4,6-Trichlorophenol	< 0.25	< 0.25
PCBs (mg/L)		
Aroclor 1016	< 0.0005	< 0.0005
Aroclor 1221	< 0.0005	< 0.0005
Aroclor 1232	< 0.0005	< 0.0005
Aroclor 1242	< 0.0005	< 0.0005
Aroclor 1248	< 0.0005	< 0.0005
Aroclor 1254	< 0.0005	< 0.0005
Aroclor 1260	< 0.0005	< 0.0005
Total Metals (mg/L)		
Arsenic	**0.031**	**0.031**
Barium	**1.7**	**0.42**
Cadmium	**0.028**	< 0.002
Chromium	**0.091**	**0.032**
Lead	**2.4**	**0.012**
Mercury	**0.0022**	**0.00058**
Selenium	**0.08**	**0.11**
Silver	**0.013**	< 0.004

Notes:
Bold results indicated detected concentrations.
< = Not detected at the reporting limit
ID = Identification
mg/L = Milligram per liter
PCB = Polychlorinated biphenyl
SVOC = Semivolatile organic compound
VOC = Volatile organic compound
J – estimated value
UJ – analyte was not detected; the reporting limit value is estimated

ATTACHMENT D
DVRs AND LABORATORY ANALYTICAL RESULTS FOR AIR, AUTO SHREDDER RESIDUE, AND SURFACE WATER SAMPLES

SUMMIT AUTO SHREDDER FIRE EMERGENCY RESPONSE
GARY, INDIANA
DATA VALIDATION REPORT

Date: December 7, 2011
Laboratory: STAT Analysis Corporation (STAT), Chicago, Illinois
Laboratory Project #: 11110766
Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (WESTON) Superfund Technical Assessment and Response Team (START)
Weston Analytical Work Order #/TDD #: 20405.016.001.1682.00/S05-0001-1111-024

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for two air samples collected for the Summit Auto Shredder Fire Emergency Response (ER) that were analyzed for Volatile Organic Compounds (VOC) by U.S. Environmental Protection Agency (U.S. EPA) Method TO-15.

A level II data package was requested from STAT. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

VOCs BY U.S. EPA METHOD TO-15

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
Air-Chicago Ave.-111911	11110766-001A	Air	11/19/2011	11/21/2011
Air-Debris Pile-111911	11110766-002A	Air	11/19/2011	11/21/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 30 days from sample collection.

3. Blanks

A method blank was analyzed with the VOC analysis and was free of target compound contamination above the reporting limit.

4. Laboratory Control Sample (LCS) Results

The LCS and LCS duplicate recoveries and relative percent differences were within quality control limits.

5. Overall Assessment

The VOC data are acceptable for use based on the information received.

Data Validation Report
Summit Auto Shredder Fire ER
STAT Analysis Corporation
Laboratory Project #: 11110766

ATTACHMENT

STAT ANALYSIS CORPORATION
RESULTS SUMMARY WITH QUALIFIERS

STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 22, 2011
Date Printed: November 22, 2011

Client: Weston Solutions
Lab Order: 11110766
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110766-001

Client Sample ID: Air-Chicago Ave.-111911
Collection Date: 11/19/2011 5:41:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **11/21/2011**		Analyst: **VP**
1,1,1-Trichloroethane	ND	0.32		ppbv	1	11/21/2011
1,1,2,2-Tetrachloroethane	ND	0.32		ppbv	1	11/21/2011
1,1,2-Trichloroethane	ND	0.32		ppbv	1	11/21/2011
1,1-Dichloroethane	ND	0.32		ppbv	1	11/21/2011
1,1-Dichloroethene	ND	0.32		ppbv	1	11/21/2011
1,2,4-Trichlorobenzene	ND	0.32		ppbv	1	11/21/2011
1,2,4-Trimethylbenzene	2.2	0.32		ppbv	1	11/21/2011
1,2-Dibromoethane	ND	0.32		ppbv	1	11/21/2011
1,2-Dichlorobenzene	0.57	0.32		ppbv	1	11/21/2011
1,2-Dichloroethane	0.52	0.32		ppbv	1	11/21/2011
1,2-Dichloropropane	ND	0.32		ppbv	1	11/21/2011
1,3,5-Trimethylbenzene	2.8	0.32		ppbv	1	11/21/2011
1,3-Butadiene	48	0.32		ppbv	1	11/21/2011
1,3-Dichlorobenzene	ND	0.32		ppbv	1	11/21/2011
1,4-Dichlorobenzene	ND	0.32		ppbv	1	11/21/2011
1,4-Dioxane	3.7	0.81		ppbv	1	11/21/2011
2-Butanone	4.2	0.81		ppbv	1	11/21/2011
2-Hexanone	ND	1.6		ppbv	1	11/21/2011
4-Ethyltoluene	1.2	0.32		ppbv	1	11/21/2011
4-Methyl-2-pentanone	ND	1.6		ppbv	1	11/21/2011
Acetone	39	3.2	*	ppbv	1	11/21/2011
Benzene	150	6.5		ppbv	20	11/21/2011
Benzyl chloride	ND	0.81		ppbv	1	11/21/2011
Bromodichloromethane	ND	0.32		ppbv	1	11/21/2011
Bromoform	ND	0.81		ppbv	1	11/21/2011
Bromomethane	0.84	0.81		ppbv	1	11/21/2011
Carbon disulfide	ND	0.32		ppbv	1	11/21/2011
Carbon tetrachloride	ND	0.32		ppbv	1	11/21/2011
Chlorobenzene	3	0.32		ppbv	1	11/21/2011
Chloroethane	2.8	0.32		ppbv	1	11/21/2011
Chloroform	ND	0.32		ppbv	1	11/21/2011
Chloromethane	26	0.81		ppbv	1	11/21/2011
cis-1,2-Dichloroethene	ND	0.32		ppbv	1	11/21/2011
cis-1,3-Dichloropropene	ND	0.32		ppbv	1	11/21/2011
Cyclohexane	0.57	0.32		ppbv	1	11/21/2011
Dibromochloromethane	ND	0.32		ppbv	1	11/21/2011
Dichlorodifluoromethane	0.39	0.32		ppbv	1	11/21/2011
Ethyl acetate	ND	0.32		ppbv	1	11/21/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

STAT Analysis Corporation
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Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202

Date Reported: November 22, 2011
Date Printed: November 22, 2011

Client: Weston Solutions
Lab Order: 11110766
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110766-001

Client Sample ID: Air-Chicago Ave.-111911
Collection Date: 11/19/2011 5:41:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **11/21/2011**		Analyst: **VP**
Ethylbenzene	65	0.32		ppbv	1	11/21/2011
Freon-113	ND	0.32		ppbv	1	11/21/2011
Freon-114	ND	1.6		ppbv	1	11/21/2011
Heptane	4.7	0.32		ppbv	1	11/21/2011
Hexachlorobutadiene	ND	0.32		ppbv	1	11/21/2011
Hexane	4.8	0.81		ppbv	1	11/21/2011
Isopropyl Alcohol	ND	1.6		ppbv	1	11/21/2011
m,p-Xylene	12	0.65		ppbv	1	11/21/2011
Methyl tert-butyl ether	ND	0.32		ppbv	1	11/21/2011
Methylene chloride	ND	3.2		ppbv	1	11/21/2011
o-Xylene	4.4	0.32		ppbv	1	11/21/2011
Propene	300	65		ppbv	20	11/21/2011
Styrene	230	6.5		ppbv	20	11/21/2011
Tetrachloroethene	ND	0.32		ppbv	1	11/21/2011
Tetrahydrofuran	13	0.81		ppbv	1	11/21/2011
Toluene	97	6.5		ppbv	20	11/21/2011
trans-1,2-Dichloroethene	ND	0.32		ppbv	1	11/21/2011
trans-1,3-Dichloropropene	ND	0.32		ppbv	1	11/21/2011
Trichloroethene	ND	0.32		ppbv	1	11/21/2011
Trichlorofluoromethane	1.1	0.32		ppbv	1	11/21/2011
Vinyl acetate	ND	3.2		ppbv	1	11/21/2011
Vinyl chloride	1.1	0.32		ppbv	1	11/21/2011
Xylenes, Total	16	0.97		ppbv	1	11/21/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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Date Reported: November 22, 2011
Date Printed: November 22, 2011

Client: Weston Solutions
Lab Order: 11110766
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110766-002

Client Sample ID: Air-Debris Pile-111911
Collection Date: 11/19/2011 5:20:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **11/21/2011**		Analyst: **VP**
1,1,1-Trichloroethane	ND	0.36		ppbv	1	11/21/2011
1,1,2,2-Tetrachloroethane	ND	0.36		ppbv	1	11/21/2011
1,1,2-Trichloroethane	ND	0.36		ppbv	1	11/21/2011
1,1-Dichloroethane	ND	0.36		ppbv	1	11/21/2011
1,1-Dichloroethene	ND	0.36		ppbv	1	11/21/2011
1,2,4-Trichlorobenzene	3.4	0.36		ppbv	1	11/21/2011
1,2,4-Trimethylbenzene	86	0.36		ppbv	1	11/21/2011
1,2-Dibromoethane	ND	0.36		ppbv	1	11/21/2011
1,2-Dichlorobenzene	12	0.36		ppbv	1	11/21/2011
1,2-Dichloroethane	59	0.36		ppbv	1	11/21/2011
1,2-Dichloropropane	4.6	0.36		ppbv	1	11/21/2011
1,3,5-Trimethylbenzene	180	18		ppbv	50	11/22/2011
1,3-Butadiene	2800	18		ppbv	50	11/22/2011
1,3-Dichlorobenzene	6.5	0.36		ppbv	1	11/21/2011
1,4-Dichlorobenzene	2.9	0.36		ppbv	1	11/21/2011
1,4-Dioxane	450	46		ppbv	50	11/22/2011
2-Butanone	390	46		ppbv	50	11/22/2011
2-Hexanone	28	1.8		ppbv	1	11/21/2011
4-Ethyltoluene	74	0.36		ppbv	1	11/21/2011
4-Methyl-2-pentanone	190	91		ppbv	50	11/22/2011
Acetone	3900	180	*	ppbv	50	11/22/2011
Benzene	7600	73		ppbv	200	11/22/2011
Benzyl chloride	16	0.91		ppbv	1	11/21/2011
Bromodichloromethane	ND	0.36		ppbv	1	11/21/2011
Bromoform	ND	0.91		ppbv	1	11/21/2011
Bromomethane	34	0.91		ppbv	1	11/21/2011
Carbon disulfide	21	0.36		ppbv	1	11/21/2011
Carbon tetrachloride	0.49	0.36		ppbv	1	11/21/2011
Chlorobenzene	150	18		ppbv	50	11/22/2011
Chloroethane	240	18		ppbv	50	11/22/2011
Chloroform	ND	0.36		ppbv	1	11/21/2011
Chloromethane	1400	46		ppbv	50	11/22/2011
cis-1,2-Dichloroethene	ND	0.36		ppbv	1	11/21/2011
cis-1,3-Dichloropropene	1.8	0.36		ppbv	1	11/21/2011
Cyclohexane	38	0.36		ppbv	1	11/21/2011
Dibromochloromethane	ND	0.36		ppbv	1	11/21/2011
Dichlorodifluoromethane	0.38	0.36		ppbv	1	11/21/2011
Ethyl acetate	ND	0.36		ppbv	1	11/21/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
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H - Holding time exceeded

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Date Reported: November 22, 2011
Date Printed: November 22, 2011

Client: Weston Solutions
Lab Order: 11110766
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110766-002

Client Sample ID: Air-Debris Pile-111911
Collection Date: 11/19/2011 5:20:00 PM
Matrix: Air

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds in Air by GC/MS	**TO-15**			Prep Date: **11/21/2011**		Analyst: **VP**
Ethylbenzene	3300	18		ppbv	50	11/22/2011
Freon-113	ND	0.36		ppbv	1	11/21/2011
Freon-114	ND	1.8		ppbv	1	11/21/2011
Heptane	500	18		ppbv	50	11/22/2011
Hexachlorobutadiene	ND	0.36		ppbv	1	11/21/2011
Hexane	420	46		ppbv	50	11/22/2011
Isopropyl Alcohol	ND	1.8		ppbv	1	11/21/2011
m,p-Xylene	990	36		ppbv	50	11/22/2011
Methyl tert-butyl ether	ND	0.36		ppbv	1	11/21/2011
Methylene chloride	8.3	3.6		ppbv	1	11/21/2011
o-Xylene	410	18		ppbv	50	11/22/2011
Propene	13000	730		ppbv	200	11/22/2011
Styrene	13000	73		ppbv	200	11/22/2011
Tetrachloroethene	2	0.36		ppbv	1	11/21/2011
Tetrahydrofuran	1500	46		ppbv	50	11/22/2011
Toluene	4700	73		ppbv	200	11/22/2011
trans-1,2-Dichloroethene	ND	0.36		ppbv	1	11/21/2011
trans-1,3-Dichloropropene	ND	0.36		ppbv	1	11/21/2011
Trichloroethene	ND	0.36		ppbv	1	11/21/2011
Trichlorofluoromethane	14	0.36		ppbv	1	11/21/2011
Vinyl acetate	ND	3.6		ppbv	1	11/21/2011
Vinyl chloride	37	0.36		ppbv	1	11/21/2011
Xylenes, Total	1400	55		ppbv	50	11/22/2011

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
HT - Sample received past holding time
* - Non-accredited parameter
RL - Reporting / Quantitation Limit for the analysis
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

SUMMIT AUTO SHREDDER FIRE EMERGENCY RESPONSE
GARY, INDIANA
DATA VALIDATION REPORT

Date: December 6, 2011
Laboratory: STAT Analysis Corporation, Chicago, Illinois
Laboratory Project #: 11110768
Data Validation Performed By: Lisa Graczyk, Weston Solutions, Inc. (WESTON) Superfund Technical Assessment and Response Team (START)
Weston Analytical Work Order #/TDD #: 20405.016.001.1682.00/S05-0001-1111-024

This data validation report has been prepared by WESTON START under the START III Region V contract. This report documents the data validation for two water and two solid (auto fluff) samples collected for the Summit Auto Shredder Emergency Response (ER) that were analyzed for the following parameters and U.S. Environmental Protection Agency (U.S. EPA) methods:

- Volatile Organic Compounds (VOC) by SW-846 Method 8260B
- Semivolatile Organic Carbons (SVOC) by SW-846 Method 8270C
- Polychlorinated Biphenyls (PCB) by SW-846 Method 8082
- Metals by SW-846 Methods 6020, 7471A, and 7470A
- Toxicity Characteristic Leaching Procedure (TCLP) Metals by SW-846 Methods 1311, 6020, and 7470A
- Asbestos by Polarized Light Microscopy (PLM) using Method EPA600/M4-82-020

A level II data package was requested from STAT. The data validation was conducted in general accordance with the U.S. EPA "Contract Laboratory Program National Functional Guidance for Superfund Organic Methods Data Review" dated June 2008 and "Contract Laboratory Program National Functional Guidelines for Inorganic Superfund Data Review" dated January 2010. The Attachment contains the results summary sheets with the hand-written qualifiers applied during data validation.

VOCs by SW-846 METHOD 8260B

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
FLUFF-1	11110768-001	Solid	11/19/2011	11/26/2011
FLUFF-2	11110768-002	Solid	11/19/2011	11/26/2011
Water-1	11110768-003	Water	11/19/2011	11/28/2011
Water-2	11110768-004	Water	11/19/2011	11/28/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection.

3. Blanks

Method blanks were analyzed with the VOC analyses. The method blanks were free of target compound contamination above the reporting limit. A couple of compounds were detected below the reporting limit in the method blanks. However, the sample results were either non-detect or much higher than the blank concentrations and no qualifications were required.

4. Surrogate Results

The surrogate recovery results were within the laboratory-established quality control (QC) limits.

5. Laboratory Control Sample (LCS) Results

The LCS and LCS duplicate (LCSD) recoveries and relative percent differences (RPD) were within laboratory QC limits except for as follows.

In the soil LCS/LCSD, bromomethane was detected low and acetone was detected high. The quantitation limits for bromomethane were flagged "UJ" and the detected result for acetone was flagged "J" as estimated for these discrepancies.

6. Overall Assessment

The VOC data are acceptable for use as qualified based on the information received.

Data Validation Report
Summit Auto Shredder ER
STAT Analysis Corporation
Laboratory Project #: 11110768

SVOCs BY SW-846 METHOD 8270C

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
FLUFF-1	11110768-001	Solid	11/19/2011	11/25/2011	11/28/2011
FLUFF-2	11110768-002	Solid	11/19/2011	11/25/2011	11/28/2011
Water-1	11110768-003	Water	11/19/2011	11/22/2011	11/23/2011 – 11/27/2011
Water-2	11110768-004	Water	11/19/2011	11/22/2011	11/23/2011 – 11/27/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis for solid samples and 7 days from sample collection to extraction and 40 days from extraction to analysis for water samples.

3. Blanks

Method blanks were analyzed with the SVOC analyses. The method blanks were free of target compound contamination above the reporting limit. One compound was detected below the reporting limit in the method blank. However, the sample results were either non-detect or much higher than the blank concentration and no qualifications were required.

4. Surrogate Results

The surrogate recoveries were within the laboratory-established QC limits except for as follows.

In the diluted water samples, some surrogate results were outside QC limits. No qualifications are required in these instances.

For the undiluted water sample results for the SVOC Select Ion Monitoring (SIM) analyses, each water sample had two surrogates outside QC limits. For water samples analyzed for SVOCs by the 8270C SIM analysis, detected results were flagged “J” and the quantitation limits for non-detected results were flagged “UJ” as estimated due to inadequate surrogate recovery.

5. LCS Results

The percent recoveries for the LCS and LCSD results were within the laboratory-established QC limits except for as follows.

For the water LCS, the following compounds were detected low: 4-chloro-3-methylphenol; 1,4-dichlorobenzene; 4-nitrophenol; and phenol. The detected results were flagged "J" and the quantitation limits for non-detected results for these compounds in water samples were flagged "UJ" as estimated. In addition, the RPDs were high for these compounds.

6. Overall Assessment

The SVOC data are acceptable for use as qualified based on the information received.

PCBs BY U.S. EPA SW-846 METHOD 8082

1. Samples

The following table summarizes the samples for which this data validation was conducted.

Samples	Lab ID	Matrix	Date Collected	Date Prepared	Date Analyzed
FLUFF-1	11110768-001	Solid	11/19/2011	11/22/2011	11/23/2011
FLUFF-2	11110768-002	Solid	11/19/2011	11/22/2011	11/23/2011
Water-1	11110768-003	Water	11/19/2011	11/22/2011	11/22/2011
Water-2	11110768-004	Water	11/19/2011	11/22/2011	11/22/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 14 days from sample collection to extraction and 40 days from extraction to analysis for solid samples and 7 days from sample collection to extraction and 40 days from extraction to analysis for water samples.

3. Blanks

Method blanks were analyzed with the PCB analyses. The method blanks were free of target compound contamination above the reporting limit.

4. Surrogates

The surrogate recoveries were within QC limits except for as follows. One of the two surrogates in sample Fluff-1 was detected high. Because the other surrogate was within QC limits, no qualifications were applied.

5. LCS Results

The LCS recovery was within the laboratory-established QC limits.

6. Overall Assessment

The PCB data are acceptable for use based on the information received.

TOTAL METALS BY SW-846 METHODS 6020, 7471A, AND 7470A

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
FLUFF-1	11110768-001	Solid	11/19/2011	11/23/2011 – 11/25/2011
FLUFF-2	11110768-002	Solid	11/19/2011	11/23/2011 – 11/25/2011
Water-1	11110768-003	Water	11/19/2011	11/23/2011 – 11/27/2011
Water-2	11110768-004	Water	11/19/2011	11/23/2011 – 11/27/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 28 days from sample collection to analysis for mercury and 180 days from sample collection to analysis for all other metals.

3. Blank Results

Method blanks were analyzed with the metals analysis. The blanks were free of target analyte contamination above the reporting limits. Some metals were detected below the reporting limits in the method blanks; however, the sample concentrations were either non-detect or much higher than the blank concentrations. No qualifications were required.

4. LCS Results

The LCS recoveries were within the laboratory-established QC limits for target analytes.

5. Overall Assessment

The metals data are acceptable for use based on the information received.

TCLP METALS BY SW-846 METHODS 1311, 6020, AND 7470A

1. Samples

The following table summarizes the samples for which this data validation is being conducted.

Samples	Lab ID	Matrix	Date Collected	Date Analyzed
FLUFF-1	11110768-001	Solid	11/19/2011	11/23/2011 – 11/25/2011
FLUFF-2	11110768-002	Solid	11/19/2011	11/23/2011 – 11/25/2011

2. Holding Times

The samples were analyzed within the required holding time limit of 28 days from sample collection to analysis for mercury and 180 days from sample collection to analysis for all other metals.

3. Blank Results

Method blanks were analyzed with the metals analysis. The blanks were free of target analyte contamination above the reporting limits. Some metals were detected below the reporting limits in the method blanks; however, the sample concentrations were either non-detect or much higher than the blank concentrations. No qualifications were required.

4. LCS Results

The LCS recoveries were within the laboratory-established QC limits for target analytes.

5. Overall Assessment

The TCLP metals data are acceptable for use based on the information received.

Data Validation Report
Summit Auto Shredder ER
STAT Analysis Corporation
Laboratory Project #: 11110768

ATTACHMENT

STAT ANALYSIS CORPORATION
RESULTS SUMMARY WITH QUALIFIERS

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Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 02, 2011
Date Printed: December 02, 2011

Client: Weston Solutions
Lab Order: 11110768
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110768-001

Client Sample ID: FLUFF-1
Collection Date: 11/19/2011 5:05:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs		**SW8082 (SW3550B)**		Prep Date: **11/22/2011**		Analyst: **TMB**
Aroclor 1016	ND	0.13		mg/Kg-dry	1	11/23/2011
Aroclor 1221	ND	0.13		mg/Kg-dry	1	11/23/2011
Aroclor 1232	ND	0.13		mg/Kg-dry	1	11/23/2011
Aroclor 1242	1.4	0.13		mg/Kg-dry	1	11/23/2011
Aroclor 1248	ND	0.13		mg/Kg-dry	1	11/23/2011
Aroclor 1254	1.6	0.13		mg/Kg-dry	1	11/23/2011
Aroclor 1260	ND	0.13		mg/Kg-dry	1	11/23/2011
TCLP Mercury		**SW1311/7470A**		Prep Date: **11/23/2011**		Analyst: **LB**
Mercury	ND	0.0002		mg/L	1	11/23/2011
Mercury		**SW7471A**		Prep Date: **11/23/2011**		Analyst: **LB**
Mercury	0.77	0.024		mg/Kg-dry	1	11/23/2011
Metals by ICP/MS		**SW6020 (SW3050B)**		Prep Date: **11/23/2011**		Analyst: **JG**
Arsenic	15	1.3		mg/Kg-dry	10	11/25/2011
Barium	3100	1.3		mg/Kg-dry	10	11/25/2011
Cadmium	17	0.66		mg/Kg-dry	10	11/25/2011
Chromium	140	1.3		mg/Kg-dry	10	11/25/2011
Lead	1300	0.66		mg/Kg-dry	10	11/25/2011
Selenium	13	1.3		mg/Kg-dry	10	11/25/2011
Silver	4.3	1.3		mg/Kg-dry	10	11/25/2011
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **11/23/2011**		Analyst: **JG**
Arsenic	ND	0.01		mg/L	5	11/25/2011
Barium	1.3	0.5		mg/L	5	11/25/2011
Cadmium	0.051	0.005		mg/L	5	11/25/2011
Chromium	ND	0.01		mg/L	5	11/25/2011
Lead	0.17	0.005		mg/L	5	11/25/2011
Selenium	0.022	0.01		mg/L	5	11/25/2011
Silver	ND	0.01		mg/L	5	11/25/2011
Asbestos by Polarized Light Microscopy (PLM)		**EPA600/M4-82-020**		Prep Date:		Analyst: **HR**
Asbestos	ND			%		12/2/2011
Cellulose	80-85			%		12/2/2011
Other	15-20			%		12/2/2011
Color	Black					12/2/2011
Semivolatile Organic Compounds by GC/MS		**SW8270C (SW3550B)**		Prep Date: **11/25/2011**		Analyst: **DM**
Acenaphthene	ND	0.49		mg/Kg-dry	1	11/28/2011
Acenaphthylene	0.58	0.49		mg/Kg-dry	1	11/28/2011

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Date Reported: December 02, 2011
Date Printed: December 02, 2011

Client: Weston Solutions
Lab Order: 11110768
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110768-001

Client Sample ID: FLUFF-1
Collection Date: 11/19/2011 5:05:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **11/25/2011**		Analyst: **DM**
Aniline	ND	4.9		mg/Kg-dry	1	11/28/2011
Anthracene	ND	0.49		mg/Kg-dry	1	11/28/2011
Benz(a)anthracene	ND	0.49		mg/Kg-dry	1	11/28/2011
Benzidine	ND	4.9		mg/Kg-dry	1	11/28/2011
Benzo(a)pyrene	ND	0.49		mg/Kg-dry	1	11/28/2011
Benzo(b)fluoranthene	0.68	0.49		mg/Kg-dry	1	11/28/2011
Benzo(g,h,i)perylene	ND	0.49		mg/Kg-dry	1	11/28/2011
Benzo(k)fluoranthene	ND	0.49		mg/Kg-dry	1	11/28/2011
Benzoic acid	ND	12		mg/Kg-dry	1	11/28/2011
Benzyl alcohol	ND	2.5		mg/Kg-dry	1	11/28/2011
Bis(2-chloroethoxy)methane	ND	2.5		mg/Kg-dry	1	11/28/2011
Bis(2-chloroethyl)ether	ND	2.5		mg/Kg-dry	1	11/28/2011
Bis(2-ethylhexyl)phthalate	86	61		mg/Kg-dry	5	11/29/2011
4-Bromophenyl phenyl ether	ND	2.5		mg/Kg-dry	1	11/28/2011
Butyl benzyl phthalate	ND	2.5		mg/Kg-dry	1	11/28/2011
Carbazole	ND	2.5		mg/Kg-dry	1	11/28/2011
4-Chloroaniline	ND	2.5		mg/Kg-dry	1	11/28/2011
4-Chloro-3-methylphenol	ND	4.9		mg/Kg-dry	1	11/28/2011
2-Chloronaphthalene	ND	2.5		mg/Kg-dry	1	11/28/2011
2-Chlorophenol	ND	2.5		mg/Kg-dry	1	11/28/2011
4-Chlorophenyl phenyl ether	ND	2.5		mg/Kg-dry	1	11/28/2011
Chrysene	ND	0.97		mg/Kg-dry	1	11/28/2011
Dibenz(a,h)anthracene	ND	0.49		mg/Kg-dry	1	11/28/2011
Dibenzofuran	ND	2.5		mg/Kg-dry	1	11/28/2011
1,2-Dichlorobenzene	ND	2.5		mg/Kg-dry	1	11/28/2011
1,3-Dichlorobenzene	ND	2.5		mg/Kg-dry	1	11/28/2011
1,4-Dichlorobenzene	ND	2.5		mg/Kg-dry	1	11/28/2011
3,3´-Dichlorobenzidine	ND	2.5		mg/Kg-dry	1	11/28/2011
2,4-Dichlorophenol	ND	2.5		mg/Kg-dry	1	11/28/2011
Diethyl phthalate	ND	2.5		mg/Kg-dry	1	11/28/2011
2,4-Dimethylphenol	ND	2.5		mg/Kg-dry	1	11/28/2011
Dimethyl phthalate	ND	2.5		mg/Kg-dry	1	11/28/2011
4,6-Dinitro-2-methylphenol	ND	4.9		mg/Kg-dry	1	11/28/2011
2,4-Dinitrophenol	ND	12		mg/Kg-dry	1	11/28/2011
2,4-Dinitrotoluene	ND	0.49		mg/Kg-dry	1	11/28/2011
2,6-Dinitrotoluene	ND	0.49		mg/Kg-dry	1	11/28/2011
Di-n-butyl phthalate	ND	2.5		mg/Kg-dry	1	11/28/2011
Di-n-octyl phthalate	5.5	2.5		mg/Kg-dry	1	11/28/2011

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Date Reported: December 02, 2011
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Client: Weston Solutions
Lab Order: 11110768
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110768-001

Client Sample ID: FLUFF-1
Collection Date: 11/19/2011 5:05:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **11/25/2011**		Analyst: **DM**
Fluoranthene	ND	2.5		mg/Kg-dry	1	11/28/2011
Fluorene	0.56	0.49		mg/Kg-dry	1	11/28/2011
Hexachlorobenzene	ND	2.5		mg/Kg-dry	1	11/28/2011
Hexachlorobutadiene	ND	2.5		mg/Kg-dry	1	11/28/2011
Hexachlorocyclopentadiene	ND	2.5		mg/Kg-dry	1	11/28/2011
Hexachloroethane	ND	2.5		mg/Kg-dry	1	11/28/2011
Indeno(1,2,3-cd)pyrene	ND	0.49		mg/Kg-dry	1	11/28/2011
Isophorone	ND	2.5		mg/Kg-dry	1	11/28/2011
2-Methylnaphthalene	ND	2.5		mg/Kg-dry	1	11/28/2011
2-Methylphenol	ND	2.5		mg/Kg-dry	1	11/28/2011
4-Methylphenol	ND	2.5		mg/Kg-dry	1	11/28/2011
Naphthalene	2.4	0.49		mg/Kg-dry	1	11/28/2011
2-Nitroaniline	ND	2.5		mg/Kg-dry	1	11/28/2011
3-Nitroaniline	ND	2.5		mg/Kg-dry	1	11/28/2011
4-Nitroaniline	ND	2.5		mg/Kg-dry	1	11/28/2011
2-Nitrophenol	ND	2.5		mg/Kg-dry	1	11/28/2011
4-Nitrophenol	ND	4.9		mg/Kg-dry	1	11/28/2011
Nitrobenzene	ND	0.49		mg/Kg-dry	1	11/28/2011
N-Nitrosodi-n-propylamine	ND	0.49		mg/Kg-dry	1	11/28/2011
N-Nitrosodimethylamine	ND	2.5		mg/Kg-dry	1	11/28/2011
N-Nitrosodiphenylamine	ND	0.49		mg/Kg-dry	1	11/28/2011
2, 2'-oxybis(1-Chloropropane)	ND	2.5		mg/Kg-dry	1	11/28/2011
Pentachlorophenol	ND	0.49		mg/Kg-dry	1	11/28/2011
Phenanthrene	1.3	0.49		mg/Kg-dry	1	11/28/2011
Phenol	17	2.5		mg/Kg-dry	1	11/28/2011
Pyrene	0.73	0.49		mg/Kg-dry	1	11/28/2011
Pyridine	ND	9.9		mg/Kg-dry	1	11/28/2011
1,2,4-Trichlorobenzene	ND	2.5		mg/Kg-dry	1	11/28/2011
2,4,5-Trichlorophenol	ND	2.5		mg/Kg-dry	1	11/28/2011
2,4,6-Trichlorophenol	ND	2.5		mg/Kg-dry	1	11/28/2011
Volatile Organic Compounds by GC/MS	**SW8260B**			Prep Date: **11/21/2011**		Analyst: **PS**
Acetone	0.77 J	0.39		mg/Kg-dry	1	11/26/2011
Benzene	0.2	0.026		mg/Kg-dry	1	11/26/2011
Bromodichloromethane	ND	0.026		mg/Kg-dry	1	11/26/2011
Bromoform	ND	0.026		mg/Kg-dry	1	11/26/2011
Bromomethane	ND	0.052 UJ		mg/Kg-dry	1	11/26/2011
2-Butanone	ND	0.39		mg/Kg-dry	1	11/26/2011
Carbon disulfide	ND	0.26		mg/Kg-dry	1	11/26/2011

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Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW8260B**			Prep Date: **11/21/2011**		Analyst: **PS**
Carbon tetrachloride	ND	0.026		mg/Kg-dry	1	11/26/2011
Chlorobenzene	ND	0.026		mg/Kg-dry	1	11/26/2011
Chloroethane	ND	0.052		mg/Kg-dry	1	11/26/2011
Chloroform	ND	0.026		mg/Kg-dry	1	11/26/2011
Chloromethane	ND	0.052		mg/Kg-dry	1	11/26/2011
Dibromochloromethane	ND	0.026		mg/Kg-dry	1	11/26/2011
1,1-Dichloroethane	ND	0.026		mg/Kg-dry	1	11/26/2011
1,2-Dichloroethane	ND	0.026		mg/Kg-dry	1	11/26/2011
1,1-Dichloroethene	ND	0.026		mg/Kg-dry	1	11/26/2011
cis-1,2-Dichloroethene	ND	0.026		mg/Kg-dry	1	11/26/2011
trans-1,2-Dichloroethene	ND	0.026		mg/Kg-dry	1	11/26/2011
1,2-Dichloropropane	ND	0.026		mg/Kg-dry	1	11/26/2011
cis-1,3-Dichloropropene	ND	0.01		mg/Kg-dry	1	11/26/2011
trans-1,3-Dichloropropene	ND	0.01		mg/Kg-dry	1	11/26/2011
Ethylbenzene	0.18	0.026		mg/Kg-dry	1	11/26/2011
2-Hexanone	ND	0.1		mg/Kg-dry	1	11/26/2011
4-Methyl-2-pentanone	ND	0.1		mg/Kg-dry	1	11/26/2011
Methylene chloride	ND	0.052		mg/Kg-dry	1	11/26/2011
Methyl tert-butyl ether	ND	0.026		mg/Kg-dry	1	11/26/2011
Styrene	1.3	0.026		mg/Kg-dry	1	11/26/2011
1,1,2,2-Tetrachloroethane	ND	0.026		mg/Kg-dry	1	11/26/2011
Tetrachloroethene	ND	0.026		mg/Kg-dry	1	11/26/2011
Toluene	0.22	0.026		mg/Kg-dry	1	11/26/2011
1,1,1-Trichloroethane	ND	0.026		mg/Kg-dry	1	11/26/2011
1,1,2-Trichloroethane	ND	0.026		mg/Kg-dry	1	11/26/2011
Trichloroethene	ND	0.026		mg/Kg-dry	1	11/26/2011
Vinyl chloride	ND	0.026		mg/Kg-dry	1	11/26/2011
Xylenes, Total	ND	0.078		mg/Kg-dry	1	11/26/2011
Percent Moisture	**D2974**			Prep Date: **11/23/2011**		Analyst: **RW**
Percent Moisture	38.6	0.2	*	wt%	1	11/25/2011

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Date Reported: December 02, 2011
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Client: Weston Solutions
Lab Order: 11110768
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110768-002

Client Sample ID: FLUFF-2
Collection Date: 11/19/2011 5:25:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs		**SW8082 (SW3550B)**		Prep Date: **11/22/2011**		Analyst: **TMB**
Aroclor 1016	ND	0.099		mg/Kg-dry	1	11/23/2011
Aroclor 1221	ND	0.099		mg/Kg-dry	1	11/23/2011
Aroclor 1232	ND	0.099		mg/Kg-dry	1	11/23/2011
Aroclor 1242	2.5	0.099		mg/Kg-dry	1	11/23/2011
Aroclor 1248	ND	0.099		mg/Kg-dry	1	11/23/2011
Aroclor 1254	1.9	0.099		mg/Kg-dry	1	11/23/2011
Aroclor 1260	ND	0.099		mg/Kg-dry	1	11/23/2011
TCLP Mercury		**SW1311/7470A**		Prep Date: **11/23/2011**		Analyst: **LB**
Mercury	ND	0.0002		mg/L	1	11/23/2011
Mercury		**SW7471A**		Prep Date: **11/23/2011**		Analyst: **LB**
Mercury	2.7	0.19		mg/Kg-dry	10	11/23/2011
Metals by ICP/MS		**SW6020 (SW3050B)**		Prep Date: **11/23/2011**		Analyst: **JG**
Arsenic	13	1		mg/Kg-dry	10	11/25/2011
Barium	1100	1		mg/Kg-dry	10	11/25/2011
Cadmium	22	0.5		mg/Kg-dry	10	11/25/2011
Chromium	290	1		mg/Kg-dry	10	11/25/2011
Lead	1700	0.5		mg/Kg-dry	10	11/25/2011
Selenium	11	1		mg/Kg-dry	10	11/25/2011
Silver	5.5	1		mg/Kg-dry	10	11/25/2011
TCLP Metals by ICP/MS		**SW1311/6020 (SW3005A)**		Prep Date: **11/23/2011**		Analyst: **JG**
Arsenic	ND	0.01		mg/L	5	11/25/2011
Barium	0.67	0.5		mg/L	5	11/25/2011
Cadmium	0.053	0.005		mg/L	5	11/25/2011
Chromium	0.012	0.01		mg/L	5	11/25/2011
Lead	0.28	0.005		mg/L	5	11/25/2011
Selenium	ND	0.01		mg/L	5	11/25/2011
Silver	ND	0.01		mg/L	5	11/25/2011
Asbestos by Polarized Light Microscopy (PLM)		**EPA600/M4-82-020**		Prep Date:		Analyst: **HR**
Asbestos	ND			%		12/2/2011
Other	99-100			%		12/2/2011
Color	Gray					12/2/2011
Semivolatile Organic Compounds by GC/MS		**SW8270C (SW3550B)**		Prep Date: **11/25/2011**		Analyst: **DM**
Acenaphthene	ND	0.37		mg/Kg-dry	1	11/28/2011
Acenaphthylene	ND	0.37		mg/Kg-dry	1	11/28/2011
Aniline	ND	3.7		mg/Kg-dry	1	11/28/2011

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Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110768-002

Client Sample ID: FLUFF-2
Collection Date: 11/19/2011 5:25:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **11/25/2011**		Analyst: **DM**
Anthracene	ND	0.37		mg/Kg-dry	1	11/28/2011
Benz(a)anthracene	0.46	0.37		mg/Kg-dry	1	11/28/2011
Benzidine	ND	3.7		mg/Kg-dry	1	11/28/2011
Benzo(a)pyrene	0.44	0.37		mg/Kg-dry	1	11/28/2011
Benzo(b)fluoranthene	0.74	0.37		mg/Kg-dry	1	11/28/2011
Benzo(g,h,i)perylene	0.42	0.37		mg/Kg-dry	1	11/28/2011
Benzo(k)fluoranthene	0.49	0.37		mg/Kg-dry	1	11/28/2011
Benzoic acid	ND	9.3		mg/Kg-dry	1	11/28/2011
Benzyl alcohol	ND	1.9		mg/Kg-dry	1	11/28/2011
Bis(2-chloroethoxy)methane	ND	1.9		mg/Kg-dry	1	11/28/2011
Bis(2-chloroethyl)ether	ND	1.9		mg/Kg-dry	1	11/28/2011
Bis(2-ethylhexyl)phthalate	3000	930		mg/Kg-dry	100	11/29/2011
4-Bromophenyl phenyl ether	ND	1.9		mg/Kg-dry	1	11/28/2011
Butyl benzyl phthalate	3.1	1.9		mg/Kg-dry	1	11/28/2011
Carbazole	ND	1.9		mg/Kg-dry	1	11/28/2011
4-Chloroaniline	ND	1.9		mg/Kg-dry	1	11/28/2011
4-Chloro-3-methylphenol	ND	3.7		mg/Kg-dry	1	11/28/2011
2-Chloronaphthalene	ND	1.9		mg/Kg-dry	1	11/28/2011
2-Chlorophenol	ND	1.9		mg/Kg-dry	1	11/28/2011
4-Chlorophenyl phenyl ether	ND	1.9		mg/Kg-dry	1	11/28/2011
Chrysene	ND	0.74		mg/Kg-dry	1	11/28/2011
Dibenz(a,h)anthracene	ND	0.37		mg/Kg-dry	1	11/28/2011
Dibenzofuran	ND	1.9		mg/Kg-dry	1	11/28/2011
1,2-Dichlorobenzene	ND	1.9		mg/Kg-dry	1	11/28/2011
1,3-Dichlorobenzene	ND	1.9		mg/Kg-dry	1	11/28/2011
1,4-Dichlorobenzene	ND	1.9		mg/Kg-dry	1	11/28/2011
3,3´-Dichlorobenzidine	ND	1.9		mg/Kg-dry	1	11/28/2011
2,4-Dichlorophenol	ND	1.9		mg/Kg-dry	1	11/28/2011
Diethyl phthalate	ND	1.9		mg/Kg-dry	1	11/28/2011
2,4-Dimethylphenol	ND	1.9		mg/Kg-dry	1	11/28/2011
Dimethyl phthalate	ND	1.9		mg/Kg-dry	1	11/28/2011
4,6-Dinitro-2-methylphenol	ND	3.7		mg/Kg-dry	1	11/28/2011
2,4-Dinitrophenol	ND	9.3		mg/Kg-dry	1	11/28/2011
2,4-Dinitrotoluene	ND	0.37		mg/Kg-dry	1	11/28/2011
2,6-Dinitrotoluene	ND	0.37		mg/Kg-dry	1	11/28/2011
Di-n-butyl phthalate	ND	1.9		mg/Kg-dry	1	11/28/2011
Di-n-octyl phthalate	ND	1.9		mg/Kg-dry	1	11/28/2011
Fluoranthene	ND	1.9		mg/Kg-dry	1	11/28/2011

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Date Reported: December 02, 2011
Date Printed: December 02, 2011

Client: Weston Solutions
Lab Order: 11110768
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110768-002

Client Sample ID: FLUFF-2
Collection Date: 11/19/2011 5:25:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3550B)**			Prep Date: **11/25/2011**		Analyst: **DM**
Fluorene	ND	0.37		mg/Kg-dry	1	11/28/2011
Hexachlorobenzene	ND	1.9		mg/Kg-dry	1	11/28/2011
Hexachlorobutadiene	ND	1.9		mg/Kg-dry	1	11/28/2011
Hexachlorocyclopentadiene	ND	1.9		mg/Kg-dry	1	11/28/2011
Hexachloroethane	ND	1.9		mg/Kg-dry	1	11/28/2011
Indeno(1,2,3-cd)pyrene	ND	0.37		mg/Kg-dry	1	11/28/2011
Isophorone	ND	1.9		mg/Kg-dry	1	11/28/2011
2-Methylnaphthalene	ND	1.9		mg/Kg-dry	1	11/28/2011
2-Methylphenol	ND	1.9		mg/Kg-dry	1	11/28/2011
4-Methylphenol	ND	1.9		mg/Kg-dry	1	11/28/2011
Naphthalene	ND	0.37		mg/Kg-dry	1	11/28/2011
2-Nitroaniline	ND	1.9		mg/Kg-dry	1	11/28/2011
3-Nitroaniline	ND	1.9		mg/Kg-dry	1	11/28/2011
4-Nitroaniline	ND	1.9		mg/Kg-dry	1	11/28/2011
2-Nitrophenol	ND	1.9		mg/Kg-dry	1	11/28/2011
4-Nitrophenol	ND	3.7		mg/Kg-dry	1	11/28/2011
Nitrobenzene	ND	0.37		mg/Kg-dry	1	11/28/2011
N-Nitrosodi-n-propylamine	ND	0.37		mg/Kg-dry	1	11/28/2011
N-Nitrosodimethylamine	ND	1.9		mg/Kg-dry	1	11/28/2011
N-Nitrosodiphenylamine	ND	0.37		mg/Kg-dry	1	11/28/2011
2, 2'-oxybis(1-Chloropropane)	ND	1.9		mg/Kg-dry	1	11/28/2011
Pentachlorophenol	ND	0.37		mg/Kg-dry	1	11/28/2011
Phenanthrene	0.55	0.37		mg/Kg-dry	1	11/28/2011
Phenol	9	1.9		mg/Kg-dry	1	11/28/2011
Pyrene	1.2	0.37		mg/Kg-dry	1	11/28/2011
Pyridine	ND	7.5		mg/Kg-dry	1	11/28/2011
1,2,4-Trichlorobenzene	ND	1.9		mg/Kg-dry	1	11/28/2011
2,4,5-Trichlorophenol	ND	1.9		mg/Kg-dry	1	11/28/2011
2,4,6-Trichlorophenol	ND	1.9		mg/Kg-dry	1	11/28/2011
Volatile Organic Compounds by GC/MS	**SW8260B**			Prep Date: **11/21/2011**		Analyst: **PS**
Acetone	ND	0.29		mg/Kg-dry	1	11/26/2011
Benzene	ND	0.02		mg/Kg-dry	1	11/26/2011
Bromodichloromethane	ND	0.02		mg/Kg-dry	1	11/26/2011
Bromoform	ND	0.02		mg/Kg-dry	1	11/26/2011
Bromomethane	ND	0.039	UJ	mg/Kg-dry	1	11/26/2011
2-Butanone	ND	0.29		mg/Kg-dry	1	11/26/2011
Carbon disulfide	ND	0.2		mg/Kg-dry	1	11/26/2011
Carbon tetrachloride	ND	0.02		mg/Kg-dry	1	11/26/2011

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R - RPD outside accepted recovery limits
E - Value above quantitation range
H - Holding time exceeded

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STAT Analysis Corporation
2242 West Harrison St., Suite 200, Chicago, IL 60612-3766
Tel: (312) 733-0551 Fax: (312) 733-2386 STATinfo@STATAnalysis.com
Accreditation Numbers: IEPA ELAP 100445; ORELAP IL300001; AIHA 101160; NVLAP LabCode 101202-

Date Reported: December 02, 2011
Date Printed: December 02, 2011

Client: Weston Solutions
Lab Order: 11110768
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110768-002

Client Sample ID: FLUFF-2
Collection Date: 11/19/2011 5:25:00 PM
Matrix: Soil

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW8260B**			Prep Date: **11/21/2011**		Analyst: **PS**
Chlorobenzene	ND	0.02		mg/Kg-dry	1	11/26/2011
Chloroethane	ND	0.039		mg/Kg-dry	1	11/26/2011
Chloroform	ND	0.02		mg/Kg-dry	1	11/26/2011
Chloromethane	ND	0.039		mg/Kg-dry	1	11/26/2011
Dibromochloromethane	ND	0.02		mg/Kg-dry	1	11/26/2011
1,1-Dichloroethane	ND	0.02		mg/Kg-dry	1	11/26/2011
1,2-Dichloroethane	ND	0.02		mg/Kg-dry	1	11/26/2011
1,1-Dichloroethene	ND	0.02		mg/Kg-dry	1	11/26/2011
cis-1,2-Dichloroethene	ND	0.02		mg/Kg-dry	1	11/26/2011
trans-1,2-Dichloroethene	ND	0.02		mg/Kg-dry	1	11/26/2011
1,2-Dichloropropane	ND	0.02		mg/Kg-dry	1	11/26/2011
cis-1,3-Dichloropropene	ND	0.0078		mg/Kg-dry	1	11/26/2011
trans-1,3-Dichloropropene	ND	0.0078		mg/Kg-dry	1	11/26/2011
Ethylbenzene	ND	0.02		mg/Kg-dry	1	11/26/2011
2-Hexanone	ND	0.078		mg/Kg-dry	1	11/26/2011
4-Methyl-2-pentanone	ND	0.078		mg/Kg-dry	1	11/26/2011
Methylene chloride	ND	0.039		mg/Kg-dry	1	11/26/2011
Methyl tert-butyl ether	ND	0.02		mg/Kg-dry	1	11/26/2011
Styrene	ND	0.02		mg/Kg-dry	1	11/26/2011
1,1,2,2-Tetrachloroethane	ND	0.02		mg/Kg-dry	1	11/26/2011
Tetrachloroethene	ND	0.02		mg/Kg-dry	1	11/26/2011
Toluene	ND	0.02		mg/Kg-dry	1	11/26/2011
1,1,1-Trichloroethane	ND	0.02		mg/Kg-dry	1	11/26/2011
1,1,2-Trichloroethane	ND	0.02		mg/Kg-dry	1	11/26/2011
Trichloroethene	ND	0.02		mg/Kg-dry	1	11/26/2011
Vinyl chloride	ND	0.02		mg/Kg-dry	1	11/26/2011
Xylenes, Total	ND	0.059		mg/Kg-dry	1	11/26/2011
Percent Moisture	**D2974**			Prep Date: **11/23/2011**		Analyst: **RW**
Percent Moisture	19.3	0.2	*	wt%	1	11/25/2011

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Date Reported: December 02, 2011
Date Printed: December 02, 2011

Client: Weston Solutions
Lab Order: 11110768
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110768-003

Client Sample ID: Water-1
Collection Date: 11/19/2011 5:15:00 PM
Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs		**SW8082 (SW3510C)**		Prep Date: **11/22/2011**		Analyst: **GVC**
Aroclor 1016	ND	0.0005		mg/L	1	11/22/2011
Aroclor 1221	ND	0.0005		mg/L	1	11/22/2011
Aroclor 1232	ND	0.0005		mg/L	1	11/22/2011
Aroclor 1242	ND	0.0005		mg/L	1	11/22/2011
Aroclor 1248	ND	0.0005		mg/L	1	11/22/2011
Aroclor 1254	ND	0.0005		mg/L	1	11/22/2011
Aroclor 1260	ND	0.0005		mg/L	1	11/22/2011
Mercury		**SW7470A**		Prep Date: **11/23/2011**		Analyst: **LB**
Mercury	0.0022	0.0002		mg/L	1	11/23/2011
Metals by ICP/MS		**SW6020 (SW3005A)**		Prep Date: **11/23/2011**		Analyst: **JG**
Arsenic	0.031	0.004		mg/L	2	11/27/2011
Barium	1.7	0.004		mg/L	2	11/27/2011
Cadmium	0.028	0.002		mg/L	2	11/27/2011
Chromium	0.091	0.004		mg/L	2	11/27/2011
Lead	2.4	0.004		mg/L	2	11/27/2011
Selenium	0.08	0.004		mg/L	2	11/27/2011
Silver	0.013	0.004		mg/L	2	11/27/2011
Semivolatile Organic Compounds by GC/MS		**SW8270C-SIM (SW3510C)**		Prep Date: **11/22/2011**		Analyst: **BTG**
Acenaphthene	ND	0.01	UJ	mg/L	1	11/27/2011
Acenaphthylene	0.012	0.01	J	mg/L	1	11/27/2011
Anthracene	ND	0.01	UJ	mg/L	1	11/27/2011
Benz(a)anthracene	ND	0.001		mg/L	1	11/27/2011
Benzo(a)pyrene	ND	0.001		mg/L	1	11/27/2011
Benzo(b)fluoranthene	ND	0.001		mg/L	1	11/27/2011
Benzo(g,h,i)perylene	ND	0.01		mg/L	1	11/27/2011
Benzo(k)fluoranthene	ND	0.001		mg/L	1	11/27/2011
Chrysene	ND	0.001		mg/L	1	11/27/2011
Dibenz(a,h)anthracene	ND	0.001		mg/L	1	11/27/2011
Fluoranthene	ND	0.01		mg/L	1	11/27/2011
Fluorene	ND	0.01		mg/L	1	11/27/2011
Indeno(1,2,3-cd)pyrene	ND	0.001		mg/L	1	11/27/2011
Naphthalene	0.029	0.01	J	mg/L	1	11/27/2011
Phenanthrene	ND	0.01	UJ	mg/L	1	11/27/2011
Pyrene	ND	0.01		mg/L	1	11/27/2011
Carbazole	ND	0.001		mg/L	1	11/27/2011
2,4-Dinitrotoluene	ND	0.001		mg/L	1	11/27/2011
2,6-Dinitrotoluene	ND	0.001		mg/L	1	11/27/2011

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JH
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Date Reported: December 02, 2011
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Client: Weston Solutions
Lab Order: 11110768
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110768-003

Client Sample ID: Water-1
Collection Date: 11/19/2011 5:15:00 PM
Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C-SIM (SW3510C)**			Prep Date: **11/22/2011**		Analyst: **BTG**
N-Nitrosodi-n-propylamine	ND UJ	0.001		mg/L	1	11/27/2011
Nitrobenzene	0.021 J	0.01		mg/L	1	11/27/2011
Pentachlorophenol	ND UJ	0.005		mg/L	1	11/27/2011
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3510C)**			Prep Date: **11/22/2011**		Analyst: **DM**
Aniline	ND	0.25		mg/L	5	11/23/2011
Benzidine	ND	0.25		mg/L	5	11/23/2011
Benzoic acid	3.1	1.2		mg/L	5	11/23/2011
Benzyl alcohol	ND	0.25		mg/L	5	11/23/2011
Bis(2-chloroethoxy)methane	ND	0.25		mg/L	5	11/23/2011
Bis(2-chloroethyl)ether	ND	0.25		mg/L	5	11/23/2011
Bis(2-ethylhexyl)phthalate	ND	0.25		mg/L	5	11/23/2011
4-Bromophenyl phenyl ether	ND	0.25		mg/L	5	11/23/2011
Butyl benzyl phthalate	ND	0.25		mg/L	5	11/23/2011
4-Chloroaniline	ND	0.25		mg/L	5	11/23/2011
4-Chloro-3-methylphenol	ND UJ	0.25		mg/L	5	11/23/2011
2-Chloronaphthalene	ND	0.25		mg/L	5	11/23/2011
2-Chlorophenol	ND	0.25		mg/L	5	11/23/2011
4-Chlorophenyl phenyl ether	ND	0.25		mg/L	5	11/23/2011
Dibenzofuran	ND	0.25		mg/L	5	11/23/2011
1,2-Dichlorobenzene	ND	0.25		mg/L	5	11/23/2011
1,3-Dichlorobenzene	ND	0.25		mg/L	5	11/23/2011
1,4-Dichlorobenzene	ND UJ	0.25		mg/L	5	11/23/2011
3,3'-Dichlorobenzidine	ND	0.5		mg/L	5	11/23/2011
2,4-Dichlorophenol	ND	0.25		mg/L	5	11/23/2011
Diethyl phthalate	ND	0.25		mg/L	5	11/23/2011
2,4-Dimethylphenol	ND	0.25		mg/L	5	11/23/2011
Dimethyl phthalate	ND	0.25		mg/L	5	11/23/2011
4,6-Dinitro-2-methylphenol	ND	1.2		mg/L	5	11/23/2011
2,4-Dinitrophenol	ND	1.2		mg/L	5	11/23/2011
Di-n-butyl phthalate	ND	0.25		mg/L	5	11/23/2011
Di-n-octyl phthalate	ND	0.25		mg/L	5	11/23/2011
Hexachlorobenzene	ND	0.25		mg/L	5	11/23/2011
Hexachlorobutadiene	ND	0.25		mg/L	5	11/23/2011
Hexachlorocyclopentadiene	ND	0.25		mg/L	5	11/23/2011
Hexachloroethane	ND	0.25		mg/L	5	11/23/2011
Isophorone	ND	0.25		mg/L	5	11/23/2011
2-Methylnaphthalene	ND	0.25		mg/L	5	11/23/2011
2-Methylphenol	ND	0.25		mg/L	5	11/23/2011

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Date Reported: December 02, 2011
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Client: Weston Solutions
Lab Order: 11110768
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110768-003

Client Sample ID: Water-1
Collection Date: 11/19/2011 5:15:00 PM
Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3510C)**			Prep Date: **11/22/2011**		Analyst: **DM**
4-Methylphenol	ND	0.25		mg/L	5	11/23/2011
2-Nitroaniline	ND	1.2		mg/L	5	11/23/2011
3-Nitroaniline	ND	1.2		mg/L	5	11/23/2011
4-Nitroaniline	ND	1.2		mg/L	5	11/23/2011
2-Nitrophenol	ND	0.25		mg/L	5	11/23/2011
4-Nitrophenol	ND	1.2	UJ	mg/L	5	11/23/2011
N-Nitrosodimethylamine	ND	0.25		mg/L	5	11/23/2011
N-Nitrosodiphenylamine	ND	0.25		mg/L	5	11/23/2011
2, 2'-oxybis(1-Chloropropane)	ND	0.25		mg/L	5	11/23/2011
Phenol	3.1	0.25	J	mg/L	5	11/23/2011
Pyridine	ND	0.25		mg/L	5	11/23/2011
1,2,4-Trichlorobenzene	ND	0.25		mg/L	5	11/23/2011
2,4,5-Trichlorophenol	ND	0.5		mg/L	5	11/23/2011
2,4,6-Trichlorophenol	ND	0.25		mg/L	5	11/23/2011
Volatile Organic Compounds by GC/MS	**SW8260B (SW5030B)**			Prep Date:		Analyst: **PS**
Acetone	6.8	1		mg/L	50	11/28/2011
Benzene	0.62	0.05		mg/L	10	11/28/2011
Bromodichloromethane	ND	0.005		mg/L	1	11/28/2011
Bromoform	ND	0.005		mg/L	1	11/28/2011
Bromomethane	0.025	0.01		mg/L	1	11/28/2011
2-Butanone	0.83	0.2		mg/L	10	11/28/2011
Carbon disulfide	ND	0.01		mg/L	1	11/28/2011
Carbon tetrachloride	ND	0.005		mg/L	1	11/28/2011
Chlorobenzene	ND	0.005		mg/L	1	11/28/2011
Chloroethane	0.028	0.01		mg/L	1	11/28/2011
Chloroform	ND	0.005		mg/L	1	11/28/2011
Chloromethane	0.29	0.01		mg/L	1	11/28/2011
Dibromochloromethane	ND	0.005		mg/L	1	11/28/2011
1,1-Dichloroethane	ND	0.005		mg/L	1	11/28/2011
1,2-Dichloroethane	ND	0.005		mg/L	1	11/28/2011
1,1-Dichloroethene	ND	0.005		mg/L	1	11/28/2011
cis-1,2-Dichloroethene	ND	0.005		mg/L	1	11/28/2011
trans-1,2-Dichloroethene	ND	0.005		mg/L	1	11/28/2011
1,2-Dichloropropane	ND	0.005		mg/L	1	11/28/2011
cis-1,3-Dichloropropene	ND	0.001		mg/L	1	11/28/2011
trans-1,3-Dichloropropene	ND	0.001		mg/L	1	11/28/2011
Ethylbenzene	0.18	0.005		mg/L	1	11/28/2011
2-Hexanone	0.035	0.02		mg/L	1	11/28/2011

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Lab Order: 11110768
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110768-003

Client Sample ID: Water-1
Collection Date: 11/19/2011 5:15:00 PM
Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW8260B (SW5030B)**			Prep Date:		Analyst: **PS**
4-Methyl-2-pentanone	0.055	0.02		mg/L	1	11/28/2011
Methylene chloride	ND	0.005		mg/L	1	11/28/2011
Methyl tert-butyl ether	ND	0.005		mg/L	1	11/28/2011
Styrene	1.3	0.05		mg/L	10	11/28/2011
1,1,2,2-Tetrachloroethane	ND	0.005		mg/L	1	11/28/2011
Tetrachloroethene	ND	0.005		mg/L	1	11/28/2011
Toluene	0.37	0.05		mg/L	10	11/28/2011
1,1,1-Trichloroethane	ND	0.005		mg/L	1	11/28/2011
1,1,2-Trichloroethane	ND	0.005		mg/L	1	11/28/2011
Trichloroethene	ND	0.005		mg/L	1	11/28/2011
Vinyl chloride	ND	0.002		mg/L	1	11/28/2011
Xylenes, Total	0.049	0.015		mg/L	1	11/28/2011

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Date Reported: December 02, 2011
Date Printed: December 02, 2011

Client: Weston Solutions
Lab Order: 11110768
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110768-004

Client Sample ID: Water-2
Collection Date: 11/20/2011 2:30:00 PM
Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
PCBs		**SW8082 (SW3510C)**		Prep Date: **11/22/2011**		Analyst: **GVC**
Aroclor 1016	ND	0.0005		mg/L	1	11/22/2011
Aroclor 1221	ND	0.0005		mg/L	1	11/22/2011
Aroclor 1232	ND	0.0005		mg/L	1	11/22/2011
Aroclor 1242	ND	0.0005		mg/L	1	11/22/2011
Aroclor 1248	ND	0.0005		mg/L	1	11/22/2011
Aroclor 1254	ND	0.0005		mg/L	1	11/22/2011
Aroclor 1260	ND	0.0005		mg/L	1	11/22/2011
Mercury		**SW7470A**		Prep Date: **11/23/2011**		Analyst: **LB**
Mercury	0.00058	0.0002		mg/L	1	11/23/2011
Metals by ICP/MS		**SW6020 (SW3005A)**		Prep Date: **11/23/2011**		Analyst: **JG**
Arsenic	0.031	0.004		mg/L	2	11/27/2011
Barium	0.42	0.004		mg/L	2	11/27/2011
Cadmium	ND	0.002		mg/L	2	11/27/2011
Chromium	0.032	0.004		mg/L	2	11/27/2011
Lead	0.012	0.002		mg/L	2	11/27/2011
Selenium	0.11	0.004		mg/L	2	11/27/2011
Silver	ND	0.004		mg/L	2	11/27/2011
Semivolatile Organic Compounds by GC/MS		**SW8270C-SIM (SW3510C)**		Prep Date: **11/22/2011**		Analyst: **BTG**
Acenaphthene	ND	0.01	UJ	mg/L	1	11/27/2011
Acenaphthylene	ND	0.01		mg/L	1	11/27/2011
Anthracene	ND	0.01		mg/L	1	11/27/2011
Benz(a)anthracene	ND	0.001		mg/L	1	11/27/2011
Benzo(a)pyrene	ND	0.001		mg/L	1	11/27/2011
Benzo(b)fluoranthene	ND	0.001		mg/L	1	11/27/2011
Benzo(g,h,i)perylene	ND	0.01		mg/L	1	11/27/2011
Benzo(k)fluoranthene	ND	0.001		mg/L	1	11/27/2011
Chrysene	ND	0.001		mg/L	1	11/27/2011
Dibenz(a,h)anthracene	ND	0.001		mg/L	1	11/27/2011
Fluoranthene	ND	0.01		mg/L	1	11/27/2011
Fluorene	ND	0.01		mg/L	1	11/27/2011
Indeno(1,2,3-cd)pyrene	ND	0.001		mg/L	1	11/27/2011
Naphthalene	ND	0.01		mg/L	1	11/27/2011
Phenanthrene	ND	0.01		mg/L	1	11/27/2011
Pyrene	ND	0.01		mg/L	1	11/27/2011
Carbazole	ND	0.001		mg/L	1	11/27/2011
2,4-Dinitrotoluene	ND	0.001		mg/L	1	11/27/2011
2,6-Dinitrotoluene	ND	0.001		mg/L	1	11/27/2011

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Date Reported: December 02, 2011
Date Printed: December 02, 2011

Client: Weston Solutions
Lab Order: 11110768
Project: Summit Auto Shredder Fire, Gary, IN
Lab ID: 11110768-004

Client Sample ID: Water-2
Collection Date: 11/20/2011 2:30:00 PM
Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C-SIM (SW3510C)**			Prep Date: **11/22/2011**		Analyst: **BTG**
N-Nitrosodi-n-propylamine	ND	0.001	UJ	mg/L	1	11/27/2011
Nitrobenzene	ND	0.01		mg/L	1	11/27/2011
Pentachlorophenol	ND	0.005		mg/L	1	11/27/2011
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3510C)**			Prep Date: **11/22/2011**		Analyst: **DM**
Aniline	ND	0.25		mg/L	5	11/23/2011
Benzidine	ND	0.25		mg/L	5	11/23/2011
Benzoic acid	6.1	2.5		mg/L	10	11/23/2011
Benzyl alcohol	ND	0.25		mg/L	5	11/23/2011
Bis(2-chloroethoxy)methane	ND	0.25		mg/L	5	11/23/2011
Bis(2-chloroethyl)ether	ND	0.25		mg/L	5	11/23/2011
Bis(2-ethylhexyl)phthalate	ND	0.25		mg/L	5	11/23/2011
4-Bromophenyl phenyl ether	ND	0.25		mg/L	5	11/23/2011
Butyl benzyl phthalate	ND	0.25		mg/L	5	11/23/2011
4-Chloroaniline	ND	0.25		mg/L	5	11/23/2011
4-Chloro-3-methylphenol	ND	0.25	UJ	mg/L	5	11/23/2011
2-Chloronaphthalene	ND	0.25		mg/L	5	11/23/2011
2-Chlorophenol	ND	0.25		mg/L	5	11/23/2011
4-Chlorophenyl phenyl ether	ND	0.25		mg/L	5	11/23/2011
Dibenzofuran	ND	0.25		mg/L	5	11/23/2011
1,2-Dichlorobenzene	ND	0.25		mg/L	5	11/23/2011
1,3-Dichlorobenzene	ND	0.25		mg/L	5	11/23/2011
1,4-Dichlorobenzene	ND	0.25	UJ	mg/L	5	11/23/2011
3,3'-Dichlorobenzidine	ND	0.5		mg/L	5	11/23/2011
2,4-Dichlorophenol	ND	0.25		mg/L	5	11/23/2011
Diethyl phthalate	ND	0.25		mg/L	5	11/23/2011
2,4-Dimethylphenol	ND	0.25		mg/L	5	11/23/2011
Dimethyl phthalate	ND	0.25		mg/L	5	11/23/2011
4,6-Dinitro-2-methylphenol	ND	1.2		mg/L	5	11/23/2011
2,4-Dinitrophenol	ND	1.2		mg/L	5	11/23/2011
Di-n-butyl phthalate	ND	0.25		mg/L	5	11/23/2011
Di-n-octyl phthalate	ND	0.25		mg/L	5	11/23/2011
Hexachlorobenzene	ND	0.25		mg/L	5	11/23/2011
Hexachlorobutadiene	ND	0.25		mg/L	5	11/23/2011
Hexachlorocyclopentadiene	ND	0.25		mg/L	5	11/23/2011
Hexachloroethane	ND	0.25		mg/L	5	11/23/2011
Isophorone	ND	0.25		mg/L	5	11/23/2011
2-Methylnaphthalene	ND	0.25		mg/L	5	11/23/2011
2-Methylphenol	ND	0.25		mg/L	5	11/23/2011

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Lab ID: 11110768-004

Client Sample ID: Water-2
Collection Date: 11/20/2011 2:30:00 PM
Matrix: Water

Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Semivolatile Organic Compounds by GC/MS	**SW8270C (SW3510C)**			Prep Date: **11/22/2011**		Analyst: **DM**
4-Methylphenol	ND	0.25		mg/L	5	11/23/2011
2-Nitroaniline	ND	1.2		mg/L	5	11/23/2011
3-Nitroaniline	ND	1.2		mg/L	5	11/23/2011
4-Nitroaniline	ND	1.2		mg/L	5	11/23/2011
2-Nitrophenol	ND	0.25		mg/L	5	11/23/2011
4-Nitrophenol	ND UJ	1.2		mg/L	5	11/23/2011
N-Nitrosodimethylamine	ND	0.25		mg/L	5	11/23/2011
N-Nitrosodiphenylamine	ND	0.25		mg/L	5	11/23/2011
2, 2'-oxybis(1-Chloropropane)	ND	0.25		mg/L	5	11/23/2011
Phenol	1.2 J	0.25		mg/L	5	11/23/2011
Pyridine	ND	0.25		mg/L	5	11/23/2011
1,2,4-Trichlorobenzene	ND	0.25		mg/L	5	11/23/2011
2,4,5-Trichlorophenol	ND	0.5		mg/L	5	11/23/2011
2,4,6-Trichlorophenol	ND	0.25		mg/L	5	11/23/2011
Volatile Organic Compounds by GC/MS	**SW8260B (SW5030B)**			Prep Date:		Analyst: **PS**
Acetone	4.9	0.2		mg/L	10	11/28/2011
Benzene	0.031	0.005		mg/L	1	11/28/2011
Bromodichloromethane	ND	0.005		mg/L	1	11/28/2011
Bromoform	ND	0.005		mg/L	1	11/28/2011
Bromomethane	ND	0.01		mg/L	1	11/28/2011
2-Butanone	0.58	0.02		mg/L	1	11/28/2011
Carbon disulfide	ND	0.01		mg/L	1	11/28/2011
Carbon tetrachloride	ND	0.005		mg/L	1	11/28/2011
Chlorobenzene	ND	0.005		mg/L	1	11/28/2011
Chloroethane	ND	0.01		mg/L	1	11/28/2011
Chloroform	ND	0.005		mg/L	1	11/28/2011
Chloromethane	0.064	0.01		mg/L	1	11/28/2011
Dibromochloromethane	ND	0.005		mg/L	1	11/28/2011
1,1-Dichloroethane	ND	0.005		mg/L	1	11/28/2011
1,2-Dichloroethane	ND	0.005		mg/L	1	11/28/2011
1,1-Dichloroethene	ND	0.005		mg/L	1	11/28/2011
cis-1,2-Dichloroethene	ND	0.005		mg/L	1	11/28/2011
trans-1,2-Dichloroethene	ND	0.005		mg/L	1	11/28/2011
1,2-Dichloropropane	ND	0.005		mg/L	1	11/28/2011
cis-1,3-Dichloropropene	ND	0.001		mg/L	1	11/28/2011
trans-1,3-Dichloropropene	ND	0.001		mg/L	1	11/28/2011
Ethylbenzene	ND	0.005		mg/L	1	11/28/2011
2-Hexanone	ND	0.02		mg/L	1	11/28/2011

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Analyses	Result	RL	Qualifier	Units	DF	Date Analyzed
Volatile Organic Compounds by GC/MS	**SW8260B (SW5030B)**			Prep Date:		Analyst: **PS**
4-Methyl-2-pentanone	0.038	0.02		mg/L	1	11/28/2011
Methylene chloride	ND	0.005		mg/L	1	11/28/2011
Methyl tert-butyl ether	ND	0.005		mg/L	1	11/28/2011
Styrene	ND	0.005		mg/L	1	11/28/2011
1,1,2,2-Tetrachloroethane	ND	0.005		mg/L	1	11/28/2011
Tetrachloroethene	ND	0.005		mg/L	1	11/28/2011
Toluene	ND	0.005		mg/L	1	11/28/2011
1,1,1-Trichloroethane	ND	0.005		mg/L	1	11/28/2011
1,1,2-Trichloroethane	ND	0.005		mg/L	1	11/28/2011
Trichloroethene	ND	0.005		mg/L	1	11/28/2011
Vinyl chloride	ND	0.002		mg/L	1	11/28/2011
Xylenes, Total	ND	0.015		mg/L	1	11/28/2011

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